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L36 ANSWER 1 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2004:470324 HCAPLUS
 DOCUMENT NUMBER: 141:25361
 TITLE: Concentrated quaternary ammonium composition for detergent
 INVENTOR(S): Gallotti, Manlio; Perira de Moraes, Patricia Ramos; Cavalcante, Cassio Queiroz
 PATENT ASSIGNEE(S): Clariant International Ltd., Switz.
 SOURCE: Eur. Pat. Appl., 9 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1426354	A1	20040609	EP 2002-27119	20021204
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
WO 2004050605	A1	20040617	WO 2003-EP13279	20031126
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W: BR, CA, CN, JP, KR, MX, US				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
BR 2003017022	A	20051025	BR 2003-17022	20031126
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US 2006135389	A1	20060622	US 2005-537556	20051212
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PRIORITY APPLN. INFO.:			EP 2002-27119	A 20021204
<--				
			WO 2003-EP13279	A 20031126
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OTHER SOURCE(S): MARPAT 141:25361

AB The quaternary ammonium compn. essentially consists of (a) a cationic compd. with general formula $R_1R_2R_3R_4N^+X^-$ wherein R_1 is C8-C22-alkyl, C8-C22-alkenyl, C8-C22-alkylamidopropyl, C8-C22-alkenyl-amidopropyl, C8-C22-alkyl/alkenyl(poly)alkoxyalkyl, C8-C22-alkanoyl ethyl or C8-C22-alkenoyl ethyl, R_2 , R_3 and R_4 are C1-C22-alkyl, C2-C22-alkenyl or a group of the formula $-A-(OA)_n-OH$, A is $-C_2H_4-$ and/or $-C_3H_6-$, n is a no. from 0 to 20 and X is an anion, (b) water and (c) a nonionic solvent of the general formula $R-O-(AO)_nH$, where R is H, alkyl or alkenyl contg. 8 to 22 carbon atoms, or Ph, A is C_2H_4 and/or C_3H_6 and n is a no. from 0 to 20, which compn. is characterized in that it contains less than 20% of water. Thus, adding a 34% HCl 150 to a mixt. of C12/C14/C16 alc. polyglycol 7 EO 1460 and dimethylalkyl(C12/C14/C16)amine 324 g, after the exothermic reaction, mixing at 70-75° for 2 h gave a clear slightly yellow liq. which was then ethoxylated with

ethylene oxide to give a target product. The final product could be condensed to a high solid level while remaining liq.

IC ICM C07C211-63

ICS C07C213-04; C07C213-08; C11D001-835; C07C217-50; C11D001-62;
C11D003-43

CC 46-5 (Surface Active Agents and Detergents)

IT **Detergents**

(manuf. of concd. quaternary ammonium compn. for detergent)

L36 ANSWER 2 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:127243 HCAPLUS

DOCUMENT NUMBER: 138:305809

TITLE: **Compositions of Mixed Surfactant
Layers in Microemulsions Determined by
Small-Angle Neutron Scattering**

AUTHOR(S): Bumajdad, Ali; Eastoe, Julian; Nave, Sandrine;
Steytler, David C.; Heenan, Richard K.; Grillo,
Isabelle

CORPORATE SOURCE: Chemistry Department, Faculty of Science, Kuwait
University, Safat, 13060, Kuwait

SOURCE: Langmuir (2003), 19(7), 2560-2567

CODEN: LANGD5; ISSN: 0743-7463

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Surfactant mixing in model water-in-heptane microemulsion interfaces was investigated for blends of a cationic didodecyldimethylammonium bromide (DDAB) with polyethylene glycol monododecyl ethers (C12EJ, J = 3, 4, 5, 6, 7, 8, and 23). Phase behavior studies, elec. cond., and contrast variation small-angle neutron scattering (SANS) have been employed to delineate the effects of systematic variation of ethylene oxide headgroup size. These mixts. are characterized by an overall surfactant concn. (0.10 mol dm⁻³) and mole fraction of nonionic, which was varied up 0.20. The larger ethylene oxide (EO) nos. of 5-7 and 23 lead to significant enhancements in the max. microemulsion solubilization capacity compared to DDAB only, whereas the shortest surfactant employed, C12E3, caused a decrease in the phase stability. Microemulsion nanostructure and interfacial compns. were studied for the EO3, EO4, EO6, and EO7 systems in partial structure factor type SANS expts., as described before for the EO5 analog (Langmuir 1999, 15, 5271). Anal. of contrast variation SANS data showed that C12E7, C12E6, and C12E5 partition strongly into the DDAB layer. Under equiv. conditions the shorter EO chain surfactants C12E4 and C12E3 appear to adsorb much more weakly. Interfacial compns. detd. by SANS have been used to rationalize trends in phase behavior and nanostructure, highlighting the importance of partitioning effects with nonionics in multicomponent mixts. of this type.

IT 3282-73-3, Didodecyldimethylammonium bromide

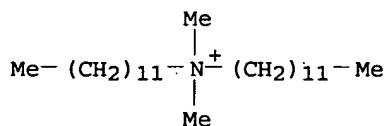
RL: NUU (Other use, unclassified); PRP (Properties); **USES**

(Uses)

(compns. of didodecyldimethylammonium bromide-
polyethylene glycol monododecyl ether mixed
surfactant layers in microemulsions detd. by small-angle neutron
scattering)

RN 3282-73-3 HCAPLUS

CN 1-Dodecanaminium, N-dodecyl-N,N-dimethyl-, bromide (9CI) (CA INDEX
NAME)

● Br⁻

CC 46-3 (Surface Active Agents and Detergents)
 IT Surfactants
 (cationic; **compns.** of didodecyldimethylammonium
 bromide-polyethylene glycol monododecyl ether mixed surfactant
 layers in microemulsions detd. by small-angle neutron scattering)
 IT Electric conductivity
 Microemulsions
 (**compns.** of didodecyldimethylammonium
 bromide-polyethylene glycol monododecyl ether mixed surfactant
 layers in microemulsions detd. by small-angle neutron scattering)
 IT Surfactants
 (nonionic; **compns.** of didodecyldimethylammonium
 bromide-polyethylene glycol monododecyl ether mixed surfactant
 layers in microemulsions detd. by small-angle neutron scattering)
 IT 142-82-5, n-Heptane, uses
 RL: NUU (Other use, unclassified); **USES (Uses)**
 (**compns.** of didodecyldimethylammonium
 bromide-polyethylene glycol monododecyl ether mixed surfactant
 layers in microemulsions detd. by small-angle neutron scattering)
 IT 3055-94-5 3055-95-6, 3,6,9,12,15-Pentaoxaheptacosan-1-ol
 3055-96-7, 3,6,9,12,15,18-Hexaoxatriacontan-1-ol 3055-97-8
 3055-98-9 3282-73-3, Didodecyldimethylammonium bromide
 5274-68-0, 3,6,9,12-Tetraoxatetracosan-1-ol 9002-92-0,
 Polyethylene glycol monododecyl ether
 RL: NUU (Other use, unclassified); PRP (Properties); **USES**
 (**Uses**)
 (**compns.** of didodecyldimethylammonium bromide-
 polyethylene glycol monododecyl ether mixed
 surfactant layers in microemulsions detd. by small-angle neutron
 scattering)

REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE
 IN THE RE FORMAT

L36 ANSWER 3 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:428954 HCAPLUS

DOCUMENT NUMBER: 137:21790

TITLE: **Compositions** containing copolymers
 based on acryloylaminodimethylethanesulfonic
 acid and synergistic additives

INVENTOR(S): Morschhaeuser, Roman; Kayser, Christoph;
 Loeffler, Matthias; Heier, Karl Heinz; Tardi,
 Aranka; Schade, Manfred; Botthof, Gernold

PATENT ASSIGNEE(S): Clariant Gmbh, Germany

SOURCE: PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 16

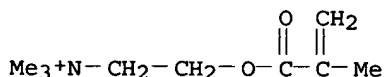
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2002044230	A2	20020606	WO 2001-EP13859	200111 28
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WO 2002044230	A3	20021031		
W: BR, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC,				
NL, PT, SE, TR				
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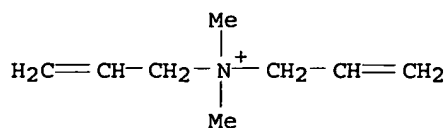
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JP 2002327102	A2	20021115	JP 2001-296004		200109
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BR 2001015764	A	20030916	BR 2001-15764		200111
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EP 1354001	A2	20031022	EP 2001-998569		200111
					28
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR					
US 2004109838	A1	20040610	US 2003-433119		200311
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US 7053146	B2	20060530			
PRIORITY APPLN. INFO.:			DE 2000-10059818	A	200012
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DE 2000-10059830 A
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DE 2000-10059831 A
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DE 2000-10059832 A
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DE 2000-10059833 A
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DE 2001-10127876 A
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WO 2001-EP13859 W
200111
28
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AB The invention relates to **compns.** contg. copolymers based
on acryloylaminodimethylethanesulfonic acid or its salts, in addn.
to synergistic additives, selected from anionic, cationic, nonionic
and/or betaine surfactants. Said **compns.** are
characterized by a distinctive thermoassociative behavior and are
particularly suitable as thickeners.
IT **5039-78-1DP**, Methacryloyloxyethyltrimethylammonium chloride,
polymers with AMPS ammonium salt, **polyethylene**
glycol monocrotonate C12-14-alkyl ethers and
diallyldimethylammonium chloride, reaction products with acrylic
acid-vinylformamide copolymer **7398-69-8DP**,
Diallyldimethylammonium chloride, polymers with AMPS ammonium salt,
polyethylene glycol monocrotonate C12-14-alkyl
ethers and methacryloyloxyethyltrimethylammonium chloride, reaction
products with acrylic acid-vinylformamide copolymer
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL
(Biological study); PREP (Preparation); **USES (Uses)**
(**compns.** contg. copolymers based on
acryloylaminodimethylethanesulfonic acid or its salts and
synergistic surfactant additives for thickeners)
RN **5039-78-1 HCAPLUS**
CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-,
chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN **7398-69-8 HCAPLUS**
CN **2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride (9CI) (CA INDEX NAME)**



● Cl⁻

- IC ICM C08F291-00
 CC 46-4 (Surface Active Agents and Detergents)
 IT Alcohols, preparation
 RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL
 (Biological study); PREP (Preparation); **USES (Uses)**
 (C12-14, ethoxylated, Genapol LA 070; **compns.** contg.
 copolymers based on acryloylaminodimethylethanesulfonic acid or
 its salts and synergistic surfactant additives for thickeners)
 IT Alcohols, preparation
 RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL
 (Biological study); PREP (Preparation); **USES (Uses)**
 (C12-14, ethoxylated, Genapol LA-070, methacrylates, polymers
 with acryloylaminodimethylethanesulfonates; **compns.**
 contg. copolymers based on acryloylaminodimethylethanesulfonic
 acid or its salts and synergistic surfactant additives for
 thickeners)
 IT Polyoxyalkylenes, preparation
 RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL
 (Biological study); PREP (Preparation); **USES (Uses)**
 (alkyl ethers, methacrylates, polymers with TMPTA and AMPS
 ammonium salts; **compns.** contg. copolymers based on
 acryloylaminodimethylethanesulfonic acid or its salts and
 synergistic surfactant additives for thickeners)
 IT Surfactants
 (anionic; **compns.** contg. copolymers based on
 acryloylaminodimethylethanesulfonic acid or its salts and
 synergistic surfactant additives for thickeners)
 IT Surfactants
 (cationic; **compns.** contg. copolymers based on
 acryloylaminodimethylethanesulfonic acid or its salts and
 synergistic surfactant additives for thickeners)
 IT Cosmetics
 Detergents
 Drugs
 Petroleum recovery
 Polyelectrolytes
 Thickening agents
 (**compns.** contg. copolymers based on
 acryloylaminodimethylethanesulfonic acid or its salts and
 synergistic surfactant additives for thickeners)
 IT Betaines
 Fluoropolymers, preparation
 RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL
 (Biological study); PREP (Preparation); **USES (Uses)**
 (**compns.** contg. copolymers based on
 acryloylaminodimethylethanesulfonic acid or its salts and
 synergistic surfactant additives for thickeners)
 IT Polyoxyalkylenes, preparation
 RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL
 (Biological study); PREP (Preparation); **USES (Uses)**
 (ethers, reaction products, with acryloylaminodimethylethanesulfo
 nate-based polymers; **compns.** contg. copolymers based on
 acryloylaminodimethylethanesulfonic acid or its salts and
 synergistic surfactant additives for thickeners)

- IT Surfactants
(nonionic; **compns.** contg. copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)
- IT Agriculture and Agricultural chemistry
(plant protective agents; **compns.** contg. copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)
- IT Quaternary ammonium compounds, preparation
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); **USES (Uses)**
(polymers; **compns.** contg. copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)
- IT Polysiloxanes, preparation
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); **USES (Uses)**
(polyoxyalkylene-, acrylates, Silvet Y-12867, polymers, with AMPS ammonium salt and polyoxyalkylene (meth)acrylates; **compns.** contg. copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)
- IT Polyoxyalkylenes, preparation
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); **USES (Uses)**
(polysiloxane-, acrylates, Silvet Y-12867, polymers, with AMPS ammonium salt and polyoxyalkylene (meth)acrylates; **compns.** contg. copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)
- IT Polyoxyalkylenes, preparation
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); **USES (Uses)**
(reaction products with acryloylaminodimethylethanesulfonate-based copolymers; **compns.** contg. copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)
- IT Polyoxyalkylenes, preparation
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); **USES (Uses)**
(reaction products, with acryloylaminodimethylethanesulfonate-based polymers; **compns.** contg. copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)
- IT Alcohols, preparation
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); **USES (Uses)**
(tallow, ethoxylated, Genapol, (meth)acrylates, polymers with acryloylaminodimethylethanesulfonates; **compns.** contg. copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)
- IT 79-41-4DP, Methacrylic acid, esters with polyoxyalkylene, polymers with TMPTA and AMPS ammonium salt 88-12-ODP, polymers with polyoxyalkylene methacrylates, AMPS ammonium salt, and methacryloyloxyethyltrimethylammonium chloride, reaction products with polyvinylpyrrolidone 5039-78-1DP, Methacryloyloxyethyltrimethylammonium chloride, polymers with AMPS ammonium salt, **polyethylene glycol** monocrotonate C12-14-alkyl ethers and diallyldimethylammonium chloride, reaction products with acrylic acid-vinylformamide copolymer 5039-78-1DP, 2-Methacryloyloxyethyltrimethylammonium chloride, polymers with polyoxyalkylene methacrylates, AMPS ammonium salt, and vinylpyrrolidone, reaction products with polyvinylpyrrolidone 7398-69-8DP, Diallyldimethylammonium chloride, polymers with AMPS ammonium salt, **polyethylene glycol** monocrotonate C12-14-alkyl ethers and methacryloyloxyethyltrimethyla

ammonium chloride, reaction products with acrylic acid-vinylformamide copolymer 7664-93-9DP, Sulfuric acid, esters with fatty alcs., salts 9002-92-0P, Polyethylene glycol lauryl ether 9003-01-4DP, Polyacrylic acid, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 9003-05-8DP, Polyacrylamide, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 9003-39-8DP, K-30, reaction products with copolymers of acryloylaminodimethylethanesulfonate salts 9004-77-7P, Polyethylene glycol butyl ether 15214-89-8DP, AMPS, polymers with polyoxyalkylene (meth)acrylates and methacrylamidoethyltrimethylammonium chloride 15625-89-5DP, TMPTA, polymers with polyoxyalkylene methacrylates and AMPS ammonium salt 25087-26-7DP, Polymethacrylic acid, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 25189-83-7DP, Poly-N-vinylcaprolactam, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 25322-68-3DP, Polyethylene glycol, alkyl ethers, methacrylates, polymers with TMPTA and AMPS ammonium salts 25322-69-4DP, Polypropylene glycol, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 25736-86-1DP, Polyethylene glycol monomethacrylate, C12-14-alkyl ethers, polymers with polyoxyalkylene acrylates, methacrylamidoethyltrimethylammonium chloride, and AMPS 25852-47-5DP, Polyethylene glycol dimethacrylate, polymers with AMPS ammonium salt, ethoxylated polysiloxane methacrylate, and polyoxyalkylene acrylate 26062-79-3DP, Polydiallyldimethylammonium chloride, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 26161-33-1DP, Poly-2-methacryloyloxyethyltrimethylammonium chloride, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 26616-03-5DP, Poly-N-vinyl-N-methylacetamide, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 28408-65-3DP, Poly-N-vinylacetamide, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 31851-82-8DP, Poly-N-vinylmorpholine, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 50885-97-7DP, Polyhydroxymethyl methacrylate, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 58374-69-9DP, polymers with polyoxyalkylene methacrylates and TMPTA 72018-12-3DP, Poly-N-vinylformamide, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 134367-40-1DP, Acrylic acid-N-vinylformamide copolymer, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 434337-19-6P 434337-20-9P 434938-17-7P 435278-89-0P
 RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (comps. contg. copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)

L36 ANSWER 4 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:823346 HCAPLUS

DOCUMENT NUMBER: 135:359419

TITLE: Polyethylene glycol alkyl ether sulfates with narrow molecular weight distribution, their manufacture, and their liquid detergent compositions with good cleaning ability, foamability, and storage stability, and low skin irritation

INVENTOR(S): Oyaizu, Takahisa; Oyama, Akira; Yoshiya, Masahisa; Nishio, Hiroshi

PATENT ASSIGNEE(S): Lion Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001316352	A2	20011113	JP 2000-135804	20000509

PRIORITY APPLN. INFO.:

JP 2000-135804

20000509

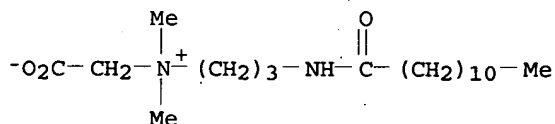
AB R1O(CH₂CH₂)_nSO₃M (R1 = linear or branched C6-24 alkyl, alkenyl; n = av. 1-6; M = H, alkali metal ion, alk. earth metal ion, NH₄⁺, C2-3 mono-, di-, trialkanolammonium), whose 55-75% have d.p. (nA - 1) to (nA + 1) (nA = peak d.p. in mol. wt. distribution curve), and which contain ≤30 ppm 1,4-dioxane, are manufd. by addn. of ethylene oxide to alcs. in the presence of Mg-based mixed metal oxides as alkoxylation catalysts, removing the catalysts, and sulfation. Thus, Conol 20P (n-dodecanol) and Diadol 13 (linear and branched tridecanol) were autoclaved with ethylene oxide in the presence of AlMgMnO_x (x = valance), filtered, the filtrate sulfonated with SO₃ in a thin-film reactor, and neutralized with aq. NaOH to give polyethylene glycol ether sulfate salt (65% of which showed d.p. 1-3) contg. 25 ppm dioxane.

IT 4292-10-8

RL: TEM (Technical or engineered material use); **USES (Uses)**
(manuf. of polyethylene glycol alkyl ether sulfates with narrow mol. wt. distribution and low dioxane content for liq. detergents)

RN 4292-10-8 HCAPLUS

CN 1-Propanaminium, N-(carboxymethyl)-N,N-dimethyl-3-[(1-oxododecyl)amino]-, inner salt (9CI) (CA INDEX NAME)



IC ICM C07C305-06

ICS A61K007-075; C07C303-24; C11D001-29; C11D001-75; C11D001-90;
C11D017-08; C07B061-00

CC 46-3 (Surface Active Agents and Detergents)

IT Sulfonates

RL: TEM (Technical or engineered material use); **USES (Uses)**
(1-alkene, C14, sodium salts; manuf. of polyethylene glycol alkyl ether sulfates with narrow mol. wt. distribution and low dioxane content for liq. detergents)

IT Group VIB element compounds

Group VIIB element compounds

Group VIII element compounds

RL: CAT (Catalyst use); **USES (Uses)**

(mixed metal oxides; manuf. of polyethylene glycol alkyl ether sulfates with narrow mol. wt. distribution and low dioxane content for liq. detergents)

IT 66578-96-9P, Aluminum magnesium manganese oxide

RL: CAT (Catalyst use); IMF (Industrial manufacture); PREP
(Preparation); **USES (Uses)**

(manuf. of polyethylene glycol alkyl ether sulfates with narrow mol. wt. distribution and low dioxane content for liq. detergents)

IT 98-11-3D, Benzenesulfonic acid, alkylated, sodium salts, uses
 1643-20-5, Lauryldimethylamine oxide 4292-10-8
 RL: TEM. (Technical or engineered material use); USES (Uses)
 (manuf. of polyethylene glycol alkyl ether
 sulfates with narrow mol. wt. distribution and low dioxane
 content for liq. detergents)

IT 9004-82-4P 54116-08-4P
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM
 (Technical or engineered material use); PREP (Preparation);
 USES (Uses)
 (oligomeric; manuf. of polyethylene glycol alkyl ether sulfates
 with narrow mol. wt. distribution and low dioxane content for
 liq. detergents)

L36 ANSWER 5 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:707264 HCAPLUS
 DOCUMENT NUMBER: 133:283339
 TITLE: Solid block pot and pan detergent
 INVENTOR(S): Klaers, Karen G.; Bailly, Helen B.
 PATENT ASSIGNEE(S): Ecolab Inc., USA
 SOURCE: PCT Int. Appl., 44 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000058436	A1	20001005	WO 1999-US24341	19991019
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6387870	B1	20020514	US 1999-282001	19990329
CA 2368428	AA	20001005	CA 1999-2368428	19991019
US 2002107164	A1	20020808	US 2002-68144	20020206
US 6608023	B2	20030819		
US 2004121935	A1	20040624	US 2003-643018	20030818
PRIORITY APPLN. INFO.: US 1999-282001 A 19990329				
WO 1999-US24341 W				

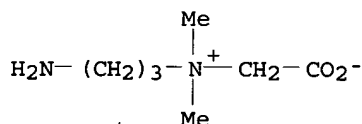
199910
19<--
US 2002-68144

A1

200202
06

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- AB A title detergent comprises a formulation dispersed in an org. solidification matrix. It can be dispensed with a H2O spray to form an aq. detergent for cutting and removing grease, removing and suspending soils and rinsing easily leaving cleaned ware. The aq. detergent conc. can be used in a cleaning liq. having exceptional soil- and esp. grease-removing properties with stable foam properties. The solid block detergent contains a package of surfactants including a neutralized anionic surfactant with either 1 or a mixt. of an alkali and alk. earth metal salt thereof and an alkyl polyglycoside. The active ingredients and polyethylene glycol as a hardening agent are dispersed in a matrix which hardens to form a solid block.
- IT 36574-66-0D, N-coco acyl derivs.
RL: TEM (Technical or engineered material use); **USES (Uses)**
(Cocoamidopropyl betaine, surfactants; solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and **polyethylene glycol** as hardener)
- RN 36574-66-0 HCAPLUS
- CN 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, inner salt (9CI) (CA INDEX NAME)



- IC ICM C11D017-00
ICS C11D001-86; C11D001-94; C11D003-37; C11D003-02
- CC 46-6 (**Surface Active Agents and Detergents**)
- IT Glycosides
RL: TEM (Technical or engineered material use); **USES (Uses)**
(alkyl polyglycosides; solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and polyethylene glycol as hardener)
- IT **Surfactants**
(amphoteric; solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and polyethylene glycol as hardener)
- IT **Surfactants**
(anionic, alkali or alk. earth metals salts; solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and polyethylene glycol as hardener)
- IT Amides, uses
RL: TEM (Technical or engineered material use); **USES (Uses)**
(coco, N-(hydroxyethyl), surfactants; solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and inorg. salt as hardener)
- IT **Detergents**
(dishwashing, solid; solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and polyethylene glycol as hardener)
- IT Alcohols, uses
RL: TEM (Technical or engineered material use); **USES (Uses)**
(ethoxylated, sulfates, sodium salts, surfactants; solid block pot and pan detergent contg. neutralized anionic surfactants and

- alkyl glycosides and inorg. salt as hardener)
- IT Polyoxyalkylenes, uses
 RL: TEM (Technical or engineered material use); **USES (Uses)**
 (hardener; solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and polyethylene glycol as)
- IT **Surfactants**
 (nonionic; solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and polyethylene glycol as hardener)
- IT Salts, uses
 RL: NUU (Other use, unclassified); **USES (Uses)**
 (solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and inorg. salt as hardener)
- IT Polyoxyalkylenes, uses
 RL: TEM (Technical or engineered material use); **USES (Uses)**
 (sulfo-terminated, lauryl ethers, sodium salts, surfactants; solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and inorg. salt as hardener)
- IT 36574-66-0D, N-coco acyl derivs.
 RL: TEM (Technical or engineered material use); **USES (Uses)**
 (Cocoamidopropyl betaine, surfactants; solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and polyethylene glycol as hardener)
- IT 25322-68-3, Polyethylene glycol
 RL: TEM (Technical or engineered material use); **USES (Uses)**
 (hardener; solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and polyethylene glycol as)
- IT 127-09-3, Sodium acetate 142-72-3, Magnesium acetate 10034-99-8, Magnesium sulfate heptahydrate
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); **USES (Uses)**
 (solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and polyethylene glycol as hardener)
- IT 25191-16-6D, Polyglucose, lauryl ether
 RL: TEM (Technical or engineered material use); **USES (Uses)**
 (solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and polyethylene glycol as hardener)
- IT 142-78-9
 RL: TEM (Technical or engineered material use); **USES (Uses)**
 (surfactant; solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and polyethylene glycol as hardener)
- IT 27176-87-0D, Dodecylbenzenesulfonic acid, salts
 RL: TEM (Technical or engineered material use); **USES (Uses)**
 (surfactants; solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and polyethylene glycol as)
- REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L36 ANSWER 6 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:412378 HCAPLUS

DOCUMENT NUMBER: 133:60465

TITLE: Detergent compositions and their production method

INVENTOR(S): Okamoto, Mitsue; Nakanishi, Yoshinori; Yamamoto, Koji

PATENT ASSIGNEE(S): New Japan Chemical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000169887	A2	20000620	JP 1998-349539	19981209

PRIORITY APPLN. INFO.:

JP 1998-349539

19981209

AB The compns., useful for dishwashing detergents, laundry detergents, shampoos, etc., contain 0.1-10% ≥ 1 tackifier $R10(CH_2CH_2O)_aR_2$ ($R_1, R_2 = C_{12-28}$ alkyl or alkenyl; $a = 50-100$) and 1-50% ≥ 1 surfactant. Thus, a detergent contg. polyethylene glycol ($a = 50$) lauryl myristyl ether 20, polyethylene glycol lauryl ether sodium sulfate 20, and water 77% had viscosity 1575 mPa-s at 25°.

IT 2601-33-4

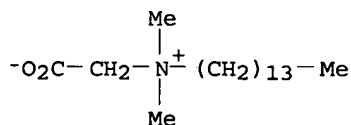
RL: PRP (Properties); TEM (Technical or engineered material use);

USES (Uses)

(detergents contg. polyethylene glycol ethers as tackifiers)

RN 2601-33-4 HCAPLUS

CN 1-Tetradecanaminium, N-(carboxymethyl)-N,N-dimethyl-, inner salt (9CI) (CA INDEX NAME)



IT 112-03-8, Stearyltrimethylammonium chloride 683-10-3

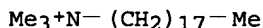
RL: PRP (Properties); TEM (Technical or engineered material use);

USES (Uses)

(surfactants; detergents contg. polyethylene glycol ethers as tackifiers)

RN 112-03-8 HCAPLUS

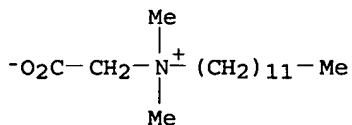
CN 1-Octadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 683-10-3 HCAPLUS

CN 1-Dodecanaminium, N-(carboxymethyl)-N,N-dimethyl-, inner salt (9CI) (CA INDEX NAME)



- IC ICM C11D003-37
ICS C11D003-32
- CC 46-6 (Surface Active Agents and Detergents)
Section cross-reference(s): 62
- IT Sulfonic acids, uses
RL: PRP (Properties); TEM (Technical or engineered material use);
USES (Uses)
(1-alkenesulfonic, sodium salts, surfactants; detergents contg. polyethylene glycol ethers as tackifiers)
- IT Amides, uses
RL: PRP (Properties); TEM (Technical or engineered material use);
USES (Uses)
(coco, N,N-bis(hydroxyethyl), ethoxylated, sodium sulfate, surfactants; detergents contg. polyethylene glycol ethers as tackifiers)
- IT Amides, uses
RL: PRP (Properties); TEM (Technical or engineered material use);
USES (Uses)
(coco, propyl-betaines, surfactants; detergents contg. polyethylene glycol ethers as tackifiers)
- IT Fatty acids, uses
RL: PRP (Properties); TEM (Technical or engineered material use);
USES (Uses)
(coco, triethanolamine salts; detergents contg. polyethylene glycol ethers as tackifiers)
- IT Polyoxyalkylenes, uses
RL: PRP (Properties); TEM (Technical or engineered material use);
USES (Uses)
(ethers, surfactants; detergents contg. polyethylene glycol ethers as tackifiers)
- IT 137-16-6, Lauroylsarcosine sodium salt 2601-33-4
16693-53-1 27306-76-9, Polyethylene glycol cetyl stearyl ether
38732-22-8D, L-Glutamic acid monotriethanolamine salt, cocoyl derivs. 155731-66-1, Polyethylene glycol lauryl myristyl ether
204578-25-6, Polyethylene glycol lauryl stearyl ether
RL: PRP (Properties); TEM (Technical or engineered material use);
USES (Uses)
(detergents contg. polyethylene glycol ethers as tackifiers)
- IT 112-03-8, Stearyltrimethylammonium chloride 151-21-3,
Sodium laurylsulfate, uses 288-32-4D, Imidazole, betaines
683-10-3 9002-92-0, Polyethylene glycol lauryl ether
9004-82-4, Polyethylene glycol lauryl ether sodium sulfate
21539-58-2, N-Lauroyl N-methyl-β-alanine sodium salt
25322-68-3D, Polyethylene glycol, ethers 26256-79-1 32612-48-9,
Polyethylene glycol monolauryl ether ammonium sulfate 33939-64-9
54884-41-2 58450-52-5, Polyethylene glycol monolauryl ether
sulfosuccinate disodium salt 89353-55-9, N-Lauroyl
N-methyl-β-alanine triethanolamine salt
RL: PRP (Properties); TEM (Technical or engineered material use);
USES (Uses)
(surfactants; detergents contg. polyethylene glycol ethers as tackifiers)

L36 ANSWER 7 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:518278 HCAPLUS
DOCUMENT NUMBER: 131:159163
TITLE: Liquid fabric-softening compositions

INVENTOR(S): containing a fatty alcohol ethoxylate diurethane polymer as a thickener
 PATENT ASSIGNEE(S): Ewbank, Eric; Collard, Catherine; Tummers, Dominique; Breuer, Ericka; Thibert, Eric
 SOURCE: Colgate-Palmolive Co., USA
 U.S., 6 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5939377	A	19990817	US 1998-119514	19980720
US 6001797	A	19991214	US 1998-159359	19980923
WO 2000004118	A1	20000127	WO 1999-US16327	19990719
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9951130	A1	20000207	AU 1999-51130	19990719
EP 1098954	A1	20010516	EP 1999-935706	19990719
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRIORITY APPLN. INFO.:			US 1998-119514	A2 19980720
			US 1998-159359	A 19980923
			WO 1999-US16327	W 19990719

OTHER SOURCE(S): MARPAT 131:159163
 AB A stable, pourable and water-dispersible liq. fabric-softening compn. comprises (a) .apprx.2-25% quaternary ammonium compd. and/or amine compd. fabric softeners; (b) 0-10% co-softening ingredient; and (c) .apprx.0.02-3% of a fatty alc. ethoxylate-diurethane polymer $R_1(OCH_2CH_2)_xOC(:O)NH(CH_2CH_2)_mNHC(:O)O(CH_2CH_2O)_x$ (sic), where R_1, R_2 are independently C_{12-24} alkyl; $m = 1-5$; $x = 50-250$, as a thickener to provide com. desirable

viscosities without adversely affecting the phys. stability of the compn. The balance of the compn. is comprised of water and optional ingredients such as an acid, an emulsifier and adjuvants. Thus, an aq. compn. (pH 2.5) contg. Tetranyl AT 1-75 [ditallow alkyl tris(2-hydroxyethyl)methyl ammonium Me sulfates] 3.88, C16-18 fatty alc. 0.82, Synperonic A 20 0.20, perfume 0.32, colorant 0.004, lactic/lactate soln. 0.063, and polymer thickener (25% active polymer in an 80:20 water-Bu diglycol mixt.) 0.075 wt.% showed viscosity 163 cP after 1 day at room temp. and 138 cP after 6 wk, compared with 356 and phase sepn., resp., using Rheolate 255 polyether-polyurethane thickener.

IT 29463-06-7D, Methyltriethanolammonium methyl sulfate, di(tallow alkyl) esters

RL: TEM (Technical or engineered material use); USES (Uses)
(softener; liq. fabric-softening compns. contg. a fatty alc. ethoxylate diurethane polymer as a thickener)

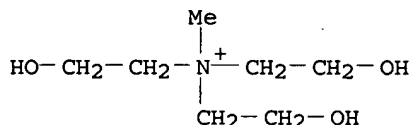
RN 29463-06-7 HCAPLUS

CN Ethanaminium, 2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, methyl sulfate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 44971-58-6

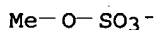
CMF C7 H18 N O3



CM 2

CRN 21228-90-0

CMF C H3 O4 S



IC ICM C11D003-37

INCL 510475000

CC 46-5 (Surface Active Agents and Detergents)

IT Alcohols, uses

RL: TEM (Technical or engineered material use); USES (Uses)
(C13-15, ethoxylated, Synperonic A 20, co-softener; liq. fabric-softening compns. contg. a fatty alc. ethoxylate diurethane polymer as a thickener)

IT Alcohols, uses

RL: TEM (Technical or engineered material use); USES (Uses)
(C16-18, co-softener; liq. fabric-softening compns. contg. a fatty alc. ethoxylate diurethane polymer as a thickener)

IT Amines, uses

RL: TEM (Technical or engineered material use); USES (Uses)
(amido, partially hydrogenated, softener; liq. fabric-softening compns. contg. a fatty alc. ethoxylate diurethane polymer as a thickener)

IT Polyoxyalkylenes, uses

RL: TEM (Technical or engineered material use); USES (Uses)
(ethers with alkylenedicarbamic acids and fatty alcs., thickener; liq. fabric-softening compns. contg. a fatty alc. ethoxylate diurethane polymer as a thickener)

IT Quaternary ammonium compounds, uses
 RL: TEM (Technical or engineered material use); **USES (Uses)**
 (fatty esters, softener; liq. fabric-softening **compns.**
 contg. a fatty alc. ethoxylate diurethane polymer as a thickener)

IT Alcohols, uses
 RL: TEM (Technical or engineered material use); **USES (Uses)**
 (fatty, co-softener; liq. fabric-softening **compns.**
 contg. a fatty alc. ethoxylate diurethane polymer as a thickener)

IT Fabric softeners
 Thickening agents
 (liq. fabric-softening **compns.** contg. a fatty alc.
 ethoxylate diurethane polymer as a thickener)

IT Amines, uses
 RL: TEM (Technical or engineered material use); **USES (Uses)**
 (softener; liq. fabric-softening **compns.** contg. a fatty
 alc. ethoxylate diurethane polymer as a thickener)

IT 12441-09-7D, Sorbitan, esters 25496-72-4, Glycerol monooleate
 RL: TEM (Technical or engineered material use); **USES (Uses)**
 (co-softener; liq. fabric-softening **compns.** contg. a
 fatty alc. ethoxylate diurethane polymer as a thickener)

IT 29463-06-7D, Methyltriethanolammonium methyl sulfate,
 di(tallow alkyl) esters 188736-02-9, Rewopal V 3340 236734-28-4,
 Tetranyl AT 1-75
 RL: TEM (Technical or engineered material use); **USES (Uses)**
 (softener; liq. fabric-softening **compns.** contg. a
 fatty alc. ethoxylate diurethane
 polymer as a thickener)

IT 25322-68-3D, Poly(ethylene oxide), ethers with alkylenedicarbamic
 acids and fatty alcs. 40021-82-7D, fatty alkyl ethers
 252319-05-4D, fatty alkyl ethers 252320-10-8D, fatty alkyl ethers
 252321-03-2D, fatty alkyl ethers 252321-12-3D, fatty alkyl ethers
 RL: TEM (Technical or engineered material use); **USES (Uses)**
 (thickener; liq. fabric-softening **compns.** contg. a
 fatty alc. ethoxylate diurethane polymer as a thickener)

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE
 IN THE RE FORMAT

L36 ANSWER 8 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:405067 HCAPLUS

DOCUMENT NUMBER: 131:46371

TITLE: Antimicrobial multipurpose microemulsion cleaner

containing a cationic surfactant/disinfectant

INVENTOR(S): Fonsny, Pierre; Burke, Julie; Dormal, Didier

PATENT ASSIGNEE(S): Colgate-Palmolive Company, USA

SOURCE: PCT Int. Appl., 25 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9931216	A1	19990624	WO 1998-US26264	199812 10

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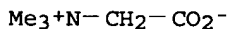
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 IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD,
 MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
 SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,

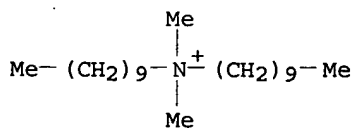
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
 CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 US 5911915 A 19990615 US 1997-989344 199712
 12
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 AU 9918150 A1 19990705 AU 1999-18150 199812
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 PRIORITY APPLN. INFO.: US 1997-989344 A 199712
 12
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 US 1998-109690 A 199807
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 WO 1998-US26264 W 199812
 10
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OTHER SOURCE(S): MARPAT 131:46371

AB Microemulsion compns. which are esp. effective in
 disinfecting and in the removal of oily and greasy soil without
 leaving streaks contain a mixt. of 0.1-20% (each) ≥1 nonionic
 surfactant, a cationic surfactant and an amphoteric surfactant
 mixt., 0.05-3% hydrocarbon ingredient, natural disinfectant
 ingredients, 1-12% water-sol. solvent, a pH buffer, and H₂O. An
 example cleaner contained propylene glycol Bu ether 3.0, EtOH 1.0,
 diethylene glycol Bu ether 1.0, cocoamidopropyl betaine 3.0, Bardac
 2170 0.72, ethoxylated alc. 1.55, triethanolamine 0.1, perfume 0.3%,
 and the balance water.
 IT 107-43-7D, Betaine, alkyl derivs. 7173-51-5,
 Bardac 22
 RL: TEM (Technical or engineered material use); USES (Uses)
 (antimicrobial multipurpose microemulsion cleaner contg. a
 cationic, amine oxide and fatty alc.
 nonionic, and amphoteric surfactant mixt.)
 RN 107-43-7 HCAPLUS
 CN Methanaminium, 1-carboxy-N,N,N-trimethyl-, inner salt (9CI) (CA
 INDEX NAME)



RN 7173-51-5 HCAPLUS
 CN 1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (9CI) (CA INDEX
 NAME)



● Cl⁻

IC ICM C11D017-00
 ICS C11D001-94; C11D003-48; C11D003-18; C11D003-50; C11D001-72;
 C11D001-40; C11D001-62; C11D001-75

CC 46-5 (Surface Active Agents and Detergents)
 IT Alcohols, uses
 RL: TEM (Technical or engineered material use); **USES (Uses)**
 (C9-11, ethoxylated; antimicrobial multipurpose microemulsion cleaner contg. a cationic, amine oxide and fatty alc. nonionic, and amphoteric surfactant mixt.)
 IT 138698-36-9, Bardac 2170
 RL: TEM (Technical or engineered material use); **USES (Uses)**
 (Bardac 2170, Bardac 2180; antimicrobial multipurpose microemulsion cleaner contg. a cationic, amine oxide and fatty alc. nonionic, and amphoteric surfactant mixt.)
 IT 107-43-7D, Betaine, alkyl derivs. 1643-20-5, Barlox 12i
 7173-51-5, Bardac 22 129495-12-1, Amphionic SFB
 165755-21-5, Tomah AO 14-2
 RL: TEM (Technical or engineered material use); **USES (Uses)**
 (antimicrobial multipurpose microemulsion cleaner contg. a cationic, amine oxide and fatty alc. nonionic, and amphoteric surfactant mixt.)
 IT 112-34-5, Diethylene glycol n-butyl ether 29387-86-8, Propylene glycol monobutyl ether
 RL: TEM (Technical or engineered material use); **USES (Uses)**
 (solvent; antimicrobial multipurpose microemulsion cleaner contg. a cationic, amine oxide and fatty alc. nonionic, and amphoteric surfactant mixt.)

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L36 ANSWER 9 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1999:49398 HCAPLUS
 DOCUMENT NUMBER: 130:97219
 TITLE: Liquid dishwashing detergent compositions with good foaming properties and detergency to oil stains
 INVENTOR(S): Morii, Noriyuki; Aida, Yoshihiro
 PATENT ASSIGNEE(S): Kao Corp., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11012594	A2	19990119	JP 1997-164015	19970620
JP 3730752	B2	20060105	JP 1997-164015	19970620

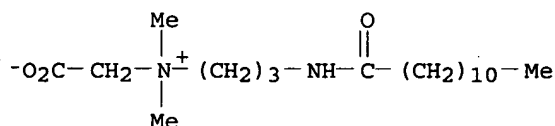
AB. Title **compsns.** contain (a) block polymer RO(EO)x(PO)y(EO)x'H (R = C8-22 linear or branched alkyl or alkenyl; EO = oxyethylene; PO = oxypropylene; x + x' = 4-20; y = 0.5-6), (b) sulfate- or sulfonate-type anionic surfactants, (c) amphoteric, amine oxide-type, or fatty acid diethanolamide-type surfactants. Thus, a dishwashing detergent comprising polyoxyethylene lauryl ether sulfate 18, lauryldimethylamine oxide 7, EtOH 5, H2O 65, and C12H25(EO)2(PO)2(EO)3H 5 parts showed good foaming properties and detergency to oil stains.
 IT 4292-10-8, N-(Dodecylamidopropyl)-N,N-dimethylammonium betaine

RL: TEM (Technical or engineered material use); **USES (Uses)**
(liq. dishwashing detergent **compns.** contg.

ethylene oxide-propylene oxide block
copolymer monoethers and surfactants)

RN 4292-10-8 HCAPLUS

CN 1-Propanaminium, N-(carboxymethyl)-N,N-dimethyl-3-[(1-oxododecyl)amino]-, inner salt (9CI) (CA INDEX NAME)



IC ICM C11D001-722

ICS C11D001-14; C11D001-16; C11D001-24; C11D001-52; C11D001-75;
C11D001-83; C11D001-835; C11D001-90; C11D001-92; C11D001-94

CC 46-6 (Surface Active Agents and Detergents)

IT Sulfonates

RL: TEM (Technical or engineered material use); **USES (Uses)**
(1-alkene; liq. dishwashing detergent **compns.** contg.
ethylene oxide-propylene oxide block copolymer monoethers and
surfactants)

IT Amides, uses

RL: TEM (Technical or engineered material use); **USES (Uses)**
(N-(hydroxyalkyl); liq. dishwashing detergent **compns.**
contg. ethylene oxide-propylene oxide block copolymer monoethers
and surfactants)

IT Surfactants

(amphoteric; liq. dishwashing detergent **compns.** contg.
ethylene oxide-propylene oxide block copolymer monoethers and
surfactants)

IT Surfactants

(anionic; liq. dishwashing detergent **compns.** contg.
ethylene oxide-propylene oxide block copolymer monoethers and
surfactants)

IT Detergents

Detergents
(dishwashing, liq.; liq. dishwashing detergent **compns.**
contg. ethylene oxide-propylene oxide block copolymer monoethers
and surfactants)

IT Amine oxides

Sulfates, uses

Sulfonates

RL: TEM (Technical or engineered material use); **USES (Uses)**
(liq. dishwashing detergent **compns.** contg. ethylene
oxide-propylene oxide block copolymer monoethers and surfactants)

IT Fatty acids, uses

RL: TEM (Technical or engineered material use); **USES (Uses)**
(palm-oil, diethanolamide; liq. dishwashing detergent
compns. contg. ethylene oxide-propylene oxide block
copolymer monoethers and surfactants)

IT 1643-20-5, Lauryldimethylamine oxide 4292-10-8,

N-(Dodecylamidopropyl)-N,N-dimethylammonium betaine 26183-44-8,
Polyoxyethylene lauryl ether sulfate 106392-12-5D, Ethylene
oxide-propylene oxide block copolymer, monoalkyl or monoalkenyl
ether 113609-82-8, Ethylene oxide-propylene oxide block copolymer
monolauryl ether

RL: TEM (Technical or engineered material use); **USES (Uses)**

(liq. dishwashing detergent **compns.** contg.

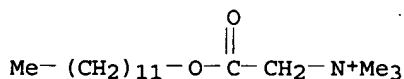
ethylene oxide-propylene oxide block
copolymer monoethers and surfactants)

L36 ANSWER 10 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1998:229103 HCAPLUS
 DOCUMENT NUMBER: 128:258755
 TITLE: Powd., flake, and granulated surfactant mixtures and their manufacture and use
 INVENTOR(S): Racky, Ernst Dieter
 PATENT ASSIGNEE(S): Wella A.-G., Germany
 SOURCE: Ger. Offen., 10 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

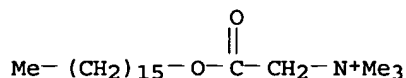
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19640086	A1	19980409	DE 1996-19640086	19960928
DE 19640086	C2	19980917	DE 1996-19640086	19960928

OTHER SOURCE(S): MARPAT 128:258755
 AB Powd., flake, and granulated mixts. with good restoring properties, water dispersibility, storage stability, and biodegradability, useful in cleaning agents, textile treatment compns., disinfectants, cosmetics, and pharmaceuticals, contain 1-2 parts ≥ 1 R1OCOCH₂NR₂3X (R₁ = C₈-22 hydrocarbyl, R₂ = C₁-3 alkyl, X = halide, sulfate, methosulfate, or phosphate anion) and 1-20 parts ≥ 1 of (un)satd., (branched) C₁₀-22 fatty alc., and (un)satd. C₁₀-22 fatty acid.
 IT 2629-75-6, Betaine lauryl ester chloride 52132-48-6, Betaine cetyl ester chloride 54514-50-0, Betaine myristyl ester chloride 75163-83-6, Betaine stearyl ester chloride
 RL: PRP (Properties); TEM (Technical or engineered material use);
 USES (Uses)
 (powd., flake, and granulated mixts. of betaine ester salts and fatty alcs. or acids with good storage stability, water dispersibility, restoring properties, and biodegradability)
 RN 2629-75-6 HCAPLUS
 CN Ethanaminium, 2-(dodecyloxy)-N,N,N-trimethyl-2-oxo-, chloride (9CI)
 (CA INDEX NAME)



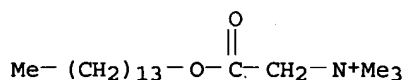
● Cl⁻

RN 52132-48-6 HCAPLUS
 CN Ethanaminium, 2-(hexadecyloxy)-N,N,N-trimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)



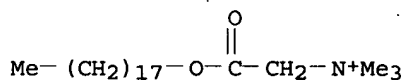
● Cl⁻

RN 54514-50-0 HCAPLUS
CN Ethanaminium, N,N,N-trimethyl-2-oxo-2-(tetradecyloxy)-, chloride
(9CI) (CA INDEX NAME)



● Cl⁻

RN 75163-83-6 HCAPLUS
CN Ethanaminium, N,N,N-trimethyl-2-(octadecyloxy)-2-oxo-, chloride
(9CI) (CA INDEX NAME)



● Cl⁻

IC ICM C11D001-90
ICS B01F017-28; D06M013-342; A61K007-50; A61K007-48; A61K007-11;
A61K007-13
CC 46-6 (Surface Active Agents and Detergents)
Section cross-reference(s): 40, 62, 63
IT Fatty acids, uses
RL: PRP (Properties); TEM (Technical or engineered material use);
USES (Uses)
(C10-22; powd., flake, and granulated mixts. of betaine esters
and fatty alcs. or acids with good storage stability, water
dispersibility, restoring properties, and biodegradability)
IT Esters, uses
RL: PRP (Properties); TEM (Technical or engineered material use);
USES (Uses)
(betaine salts; powd., flake, and granulated mixts. of betaine
esters and fatty alcs. or acids with good storage stability,
water dispersibility, restoring properties, and biodegradability)
IT Betaines
RL: PRP (Properties); TEM (Technical or engineered material use);
USES (Uses)
(esters, salts; powd., flake, and granulated mixts. of betaine
esters and fatty alcs. or acids with good storage stability,
water dispersibility, restoring properties, and biodegradability)
IT Alcohols, uses
RL: PRP (Properties); TEM (Technical or engineered material use);

USES (Uses)

(fatty, C10-22; powd., flake, and granulated mixts. of betaine esters and fatty alcs. or acids with good storage stability, water dispersibility, restoring properties, and biodegradability)

IT 112-53-8, Lauryl alcohol 112-92-5, Stearylalcohol
2629-75-6, Betaine lauryl ester chloride 5333-42-6,
Eutanol G 30399-84-9, Isostearic acid 36653-82-4, Cetyl alcohol
52132-48-6, Betaine cetyl ester chloride 54514-50-0
, Betaine myristyl ester chloride 75163-83-6, Betaine
stearyl ester chloride

RL: PRP (Properties); TEM (Technical or engineered material use);

USES (Uses)

(powd., flake, and granulated mixts. of betaine ester salts and fatty alcs. or acids with good storage stability, water dispersibility, restoring properties, and biodegradability)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN
THE RE FORMAT

L36 ANSWER 11 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:488773 HCAPLUS

DOCUMENT NUMBER: 122:242789

TITLE: Behavior of surfactants in aqueous two phase systems

AUTHOR(S): Save, Sanjiv V.; Pangarkar, Vishwas G.

CORPORATE SOURCE: Dep. Chem. Technology, Univ. Bombay, Bombay, 400 019, India

SOURCE: Bioseparation (1995), 5(1), 27-33
CODEN: BISPE4; ISSN: 0923-179X

PUBLISHER: Kluwer

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Partitioning of various surfactants was studied in polyethylene glycol-sodium sulfate and dextran-polyethylene glycol systems. The results show that anionic surfactants favor polyethylene glycol phases while cationic surfactants prefer salt or dextran phases. In the case of nonionic surfactants, partition coeffs. favoring both phases are obtained in a manner depending on the surfactant nature. These results are explained on the basis of polymer-surfactant interactions. Further, effects of pH and phase compns. on partition coeffs. are also investigated. Zaslavsky's model relating the no. of -CH₂- groups present in the solute to its partition coeff. is applied to the results obtained for ionic surfactants.

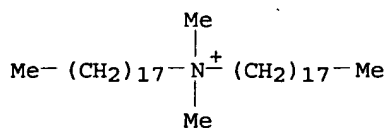
IT 107-64-2, Dimethyl distearyl ammonium chloride
112-00-5, Dodecyltrimethylammonium chloride 112-02-7
, Cetyltrimethylammonium chloride

RL: PEP (Physical, engineering or chemical process); PRP
(Properties); PROC (Process)

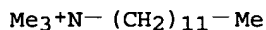
(partitioning of surfactants in aq. polyethylene glycol-sodium sulfate and dextran-polyethylene glycol systems)

RN 107-64-2 HCAPLUS

CN 1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 112-00-5 HCAPLUS
 CN 1-Dodecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 112-02-7 HCAPLUS
 CN 1-Hexadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

CC 46-3 (Surface Active Agents and Detergents)
 IT 7757-82-6, Sodium sulfate, uses 9004-54-0, Dextran, uses 25322-68-3, Polyethylene glycol
 RL: NUU (Other use, unclassified); **USES (Uses)**
 (partitioning of surfactants in aq. polyethylene glycol-sodium sulfate and dextran-polyethylene glycol systems)
 IT 107-64-2, Dimethyl distearyl ammonium chloride
 112-00-5, Dodecyltrimethylammonium chloride 112-02-7, Cetyltrimethylammonium chloride 123-03-5, Cetylpyridinium chloride 151-21-3, SDS, properties 9002-93-1, Triton x 100 25155-30-0, Sodium dodecylbenzenesulfonate
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)
 (partitioning of surfactants in aq. **polyethylene glycol-sodium sulfate and dextran-polyethylene glycol systems**)

L36 ANSWER 12 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1993:541638 HCAPLUS
 DOCUMENT NUMBER: 119:141638
 TITLE: Preparation of oil-in-water miniemulsions from long-chain fatty alcohols
 AUTHOR(S): Dai, Lerong; Jin, Yi; Li, Wailang
 CORPORATE SOURCE: Inst. Phys. Chem., Peking Univ., Beijing, 100871, Peop. Rep. China
 SOURCE: Yingyong Huaxue (1993), 10(3), 57-9
 CODEN: YIHUED; ISSN: 1000-0518
 DOCUMENT TYPE: Journal
 LANGUAGE: Chinese

AB The stable oil-in-water miniemulsion were prepd. using mixed emulsifier comprising a mixt. of cationic surfactants (quaternary ammonium compds.) and long-chain fatty alcs. (C8-16) in low concn. The chain length of the fatty alcs. and mole ratio of surfactant to fatty alc. appeared to be an important factor influencing the formation of the miniemulsions. The temp. of emulsification, property of the oil phase, and vol. fraction of the internal phase also affected the oil droplet size and stability of the emulsion. The stabilization of emulsions was interpreted in terms of the formation of the lyotropic liq. crystals.

IT 57-09-0P, Cetyltrimethylammonium bromide 1119-94-4P, Dodecyltrimethylammonium bromide 1119-97-7P, Tetradecyltrimethylammonium bromide
 RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); **USES (Uses)**
 (surfactants, oil-in-water miniemulsions, contg. long-chain fatty alcs., prepn. of)

RN 57-09-0 HCAPLUS

CN 1-Hexadecanaminium, N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)

$\text{Me}_3\text{N}^-(\text{CH}_2)_{15}-\text{Me}$

● Br^-

RN 1119-94-4 HCAPLUS

CN 1-Dodecanaminium, N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)

$\text{Me}_3\text{N}^-(\text{CH}_2)_{11}-\text{Me}$

● Br^-

RN 1119-97-7 HCAPLUS

CN 1-Tetradecanaminium, N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)

$\text{Me}_3\text{N}^-(\text{CH}_2)_{13}-\text{Me}$

● Br^-

CC 46-4 (Surface Active Agents and Detergents)
 Section cross-reference(s): 75

IT Kerosine
 RL: **USES (Uses)**
 (long-chain fatty alc.-ionic surfactant mixed emulsifiers for, emulsion stability in relation to)

IT Electric conductivity and conduction
 (of quaternary ammonium compd. surfactant-long-chain fatty alc. oil-in-water miniemulsions, effect of aging and compn. on)

IT Quaternary ammonium compounds, preparation
 RL: TEM (Technical or engineered material use); **USES (Uses)**

(surfactants, miniemulsions, contg. long-chain fatty alcs.,
prepn. of)
IT 108-88-3, Toluene, uses
RL: **USES (Uses)**
(long-chain fatty alc.-ionic surfactant mixed emulsifiers for,
emulsion stability in relation to)
IT 57-09-0P, Cetyltrimethylammonium bromide 151-21-3P, Sodium
dodecyl sulfate, uses 1119-94-4P, Dodecyltrimethylammonium
bromide 1119-97-7P, Tetradecyltrimethylammonium bromide
RL: SPN (Synthetic preparation); TEM (Technical or engineered
material use); PREP (Preparation); **USES (Uses)**
(surfactants, oil-in-water miniemulsions, contg. long-chain
fatty alcs., prepn. of)

L36 ANSWER 13 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1991:26216 HCAPLUS
DOCUMENT NUMBER: 114:26216
TITLE: Fragrance-retaining **compositions** for
cleaning **compositions**
INVENTOR(S): Watanabe, Yoji; Kiyama, Kentaro; Yasue, Ryoji;
Takano, Kuniko
PATENT ASSIGNEE(S): Lion Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp..
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

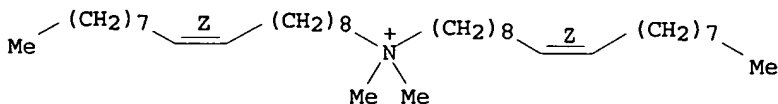
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02242899	A2	19900927	JP 1989-63351	198903 15

PRIORITY APPLN. INFO.: JP 1989-63351
198903
15

AB Fragrance-retaining **compns.** contain perfumes, polyethylene
glycol (I), and cationic polymers are used in detergents, shampoos,
bleaching agents, etc. Thus, I 40, perfumes, 10, and cationic
starches 50, were mixed, pulverized, and used in detergent.

IT 7212-69-3, Dimethyldioleylammonium chloride
RL: **USES (Uses)**
(softening agents, contg. encapsulated **polyethylene**
glycol and perfume and cationic starch)
RN 7212-69-3 HCAPLUS
CN 9-Octadecen-1-aminium, N,N-dimethyl-N-(9Z)-9-octadecenyl-, chloride,
(9Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



● Cl⁻

IC ICM C11D003-50
ICS A61K007-46; C11B009-00; C11D009-44

CC 46-5 (Surface Active Agents and Detergents)
 Section cross-reference(s): 62

IT Perfumes and Essences
 (capsules contg. polyethylene glycol and cationic starch and, for
 cleaning compns.)

IT Detergents
 Shampoos
 Soaps
 RL: **USES (Uses)**
 (contg. capsulated polyethylene glycol and perfume and cationic
 starch)

IT Capsules
 (contg. polyethylene glycol and perfume and cationic starch, for
 cleaning compns.)

IT Quaternary ammonium compounds, uses and miscellaneous
 RL: **USES (Uses)**
 (bis(hydrogenated tallow alkyl)dimethyl, chlorides, softening
 agents, contg. capsulated polyethylene glycol and perfume and
 cationic starch)

IT 3313-92-6, Sodium percarbonate
 RL: **USES (Uses)**
 (bleaching agents, contg. capsulated polyethylene glycol and
 perfume and cationic starch)

IT 25322-68-3, Polyethylene glycol
 RL: **USES (Uses)**
 (capsules contg. perfume and cationic starch and, for perfume
 compns.)

IT 9005-25-8D, Starch, cationic derivs.
 RL: **USES (Uses)**
 (capsules contg. polyethylene glycol and perfumes and, for
 cleaning compns.)

IT 7212-69-3, Dimethyldioleylammonium chloride
 RL: **USES (Uses)**
 (softening agents, contg. encapsulated polyethylene
 glycol and perfume and cationic starch)

L36 ANSWER 14 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1986:35926 HCAPLUS
 DOCUMENT NUMBER: 104:35926
 TITLE: Additives and compositions for
 powdered detergents
 INVENTOR(S): Sato, Teruyuki; Kawato, Toshiyuki
 PATENT ASSIGNEE(S): Sanyo Chemical Industries Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60192800	A2	19851001	JP 1984-48888	198403 13

PRIORITY APPLN. INFO.: JP 1984-48888
 198403
 13

AB Additives contain solid water-sol. poly(oxyethylene) ethers having
 no hydrophobic groups and di-C10-22-alkyldimethylammonium salts in
 ratios (20-80):(20-80) and are added to detergents in amts. 1-10%.
 Thus, 40 parts polyethylene glycol (mol. wt. 6000) and 60 parts
 (C18H37)2Me2NCl were melted, mixed, cooled, pulverized, and added

(3%) to a detergent, and the detergent had good detergency and softening properties.

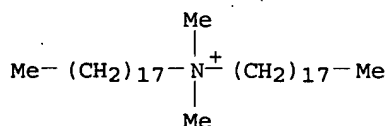
IT 107-64-2

RL: USES (Uses)

(polyethylene glycol blends, softening agents, for detergents)

RN 107-64-2 HCAPLUS

CN 1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

IC ICM C11D003-30

ICS C11D003-37

CC 46-5 (Surface Active Agents and Detergents)

IT 25322-68-3

RL: USES (Uses)

(dimethyldistearylammonium chloride blends, softening agents, for detergents)

IT 107-64-2

RL: USES (Uses)

(polyethylene glycol blends, softening agents, for detergents)

L36 ANSWER 15 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1985:408026 HCAPLUS

DOCUMENT NUMBER: 103:8026

TITLE: Detergent compositions

PATENT ASSIGNEE(S): Lion Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60018593	A2	19850130	JP 1983-125849	19830711

PRIORITY APPLN. INFO.:

JP 1983-125849

19830711

AB The compns. contain (A) 5-30 wt.% anionic surfactants mainly contg. salts of α -sulfo fatty acids $\text{RCH}(\text{SO}_3\text{M})(\text{CO}_2\text{M})$ (R = C10-20 alkyl or alkenyl, M = alkali or alk. earth metal) (I) or salts of α -sulfo fatty acid esters $\text{R}_1\text{CH}(\text{SO}_3\text{M}_1)(\text{CO}_2\text{R}_2)$ (R₁ = C10-20 alkyl or alkenyl, R₂ = C1-3 alkyl, M₁ = alkali or alk. earth metal) contg. ≥ 1 wt.% I, (B) 0.1-10 wt.% cationic surfactants $\text{R}_3\text{R}_4\text{Me}_2\text{N}^+\text{X}^-$ (R₃ = C10-22 alkyl, R₄ = Me, C10-22 alkyl, X = halogen), and (C) 5-25 wt.% zeolite. The compns. simultaneously afford excellent detergency and flexibility to cotton cloth. Thus,

a α -sulfo-substituted hardened tallow fatty acid Me ester Na salt 1, α -sulfo-substituted hardened palm oil fatty acid di-Na salt 9, Na n-dodecylbenzenesulfonate (II) [25155-30-0] 5, a Na α -olefinsulfonate [C16(av.)] 5, dimethyldistearylammonium chloride [107-64-2] 3, zeolite 15, Na silicate 10, Na₂CO₃ 10, soap 2, Na₂SO₄·7H₂O 35, and H₂O 5 parts were mixed to prep. a granular detergent. A cotton knit cloth was washed with a 0.14 wt.% 2% soln. of the detergent at 20° at bath ratio 30 for 10 min, rinsed twice for 3 min, and air-dried at 25° and 60% relative humidity. The detergent imparted better flexibility than a std. detergent contg. II 15, Na lauryl sulfate 10, polyethylene glycol (av. mol. wt. 6000) 1.5, zeolite 20, Na silicate 10, Na₂CO₃ 10, soap 2, Na₂SO₄·7H₂O 26.5 and H₂O 5.

- IC ICM C11D001-28
ICS C11D003-12; C11D003-30
- CC 46-5 (Surface Active Agents and Detergents)
- IT Zeolites, uses and miscellaneous
RL: TEM (Technical or engineered material use); **USES (Uses)**
(laundry detergents contg., for flexibility of cotton)
- IT Fatty acids, compounds
RL: **USES (Uses)**
(coco, α -sulfo, di-Na salts, laundry detergents contg., for flexibility of cotton cloth)
- IT Quaternary ammonium compounds, uses and miscellaneous
RL: TEM (Technical or engineered material use); **USES (Uses)**
(di-C10-22-alkyldimethyl, halides, laundry detergents contg., for flexibility of cotton cloth)
- IT Detergents
(laundry, sulfo fatty acid salt-dialkyldimethylammonium halide-zeolite-sulfonate surfactant **compns.**, for flexibility of cotton)
- IT Fatty acids, compounds
RL: **USES (Uses)**
(tallow, alkyl esters, sodium salts, laundry detergents contg., for flexibility of cotton cloth)
- IT 5896-55-9
RL: TEM (Technical or engineered material use); **USES (Uses)**
(detergent **compns.** contg., for flexibility of cotton cloth)
- IT 107-64-2 25155-30-0
RL: TEM (Technical or engineered material use); **USES (Uses)**
(laundry detergents contg., for flexibility of cotton cloth)
- IT 34503-11-2D, alkyl ethers
RL: **USES (Uses)**
(oligomeric, laundry detergents contg., for flexible cotton cloth)

L36 ANSWER 16 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1985:168715 HCAPLUS
DOCUMENT NUMBER: 102:168715
TITLE: Additive for textile-washing **composition**
INVENTOR(S): Upadek, Horst; Berg, Markus; Andree, Hans; Seiter, Wolfgang; Jacobs, Jochen
PATENT ASSIGNEE(S): Henkel K.-G.a.A., Fed. Rep. Ger.
SOURCE: Ger. Offen., 22 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3329191	A1	19850221	DE 1983-3329191	198308

12
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 EP 133562 A2 19850227 EP 1984-109286
 198408
 04
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 EP 133562 A3 19880210
 R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE
 ES 535089 A1 19850501 ES 1984-535089
 198408
 10
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 ZA 8406252 A 19850529 ZA 1984-6252
 198408
 10
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 PRIORITY APPLN. INFO.: DE 1983-3329191 A
 198308
 12
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OTHER SOURCE(S):

MARPAT 102:168715

AB A fabric softener is used with a silicone oil or a nonvolatile hydrocarbon in the prepn. of additives for laundry detergents. The additives impart softness and antistatic properties to fabrics during laundering. Thus, a slurry contg. dimethyldistearylammonium chloride [107-64-2] 40, Na5P3O10 15, Na silicate 15, ethoxylated (5 mols) fatty alc. 0.5, Aerosil-activated poly(dimethylsiloxane) 2.0, zeolite A 15, water 12.4, and NaOH 0.1 part was converted to granules which were mixed (12.5 parts) with a spray-dried detergent powder 64.95, NaBO3.4H2O 22, perfume 0.25, and protease 0.3 part. This mixt. was used to wash fabrics. The washed fabrics had good softness and antistatic properties after drying on hangers or in a mech. drier.

IC ICM C11D001-82

CC 46-5 (Surface Active Agents and Detergents)

IT Hydrocarbon oils
 RL: **USES (Uses)**
 (detergent additives contg. fabric softeners and)

IT Siloxanes and Silicones, uses and miscellaneous
 RL: **USES (Uses)**
 (detergent additives contg. fabric softeners and liq.)

IT 107-64-2
 RL: **USES (Uses)**
 (softening agents, for textiles, detergent additives contg.)

L36 ANSWER 17 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1985:115555 HCAPLUS

DOCUMENT NUMBER: 102:115555

TITLE: Concentrated textile softening composition

INVENTOR(S): Grandmaire, Jean Paul; Jacques, Alain

PATENT ASSIGNEE(S): Colgate-Palmolive Co., USA

SOURCE: Ger. Offen., 18 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3415892	A1	19841115	DE 1984-3415892	198404 28

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SE 8402212	A	19841112	SE 1984-2212	198404 19
			<--	
SE 464139	B	19910311		
SE 464139	C	19911114		
ZA 8403208	A	19851224	ZA 1984-3208	198404 30
			<--	
AT 8401464	A	19920115	AT 1984-1464	198405 03
			<--	
AT 395016	B	19920825		
DK 8402238	A	19841112	DK 1984-2238	198405 04
			<--	
DK 164463	B	19920629		
AU 8427747	A1	19841115	AU 1984-27747	198405 07
			<--	
AU 566057	B2	19871008		
CH 664777	A	19880331	CH 1984-2250	198405 08
			<--	
BR 8402167	A	19841218	BR 1984-2167	198405 09
			<--	
NO 8401889	A	19841112	NO 1984-1889	198405 10
			<--	
NO 161690	B	19890605		
NO 161690	C	19890913		
GB 2139658	A1	19841114	GB 1984-11919	198405 10
			<--	
GB 2139658	B2	19870401		
ES 532365	A1	19851216	ES 1984-532365	198405 10
			<--	
CA 1244603	A1	19881115	CA 1984-453993	198405 10
			<--	
BE 899633	A1	19841112	BE 1984-212911	198405 11
			<--	
FR 2545853	A1	19841116	FR 1984-7366	198405 11
			<--	
FR 2545853	B1	19860926		
NL 8401523	A	19841203	NL 1984-1523	198405 11
			<--	
US 4661270	A	19870428	US 1985-728447	

198505
01

PRIORITY APPLN. INFO.:

US 1983-493450

A

198305
11

OTHER SOURCE(S): MARPAT 102:115555

AB Concd., aq., stable fabric softening **compns.** comprise RR1R2R3N+ X- (R-R3 = aliph. C1-30 radicals, of which ≥ 2 are C14-30 alkyl) 12-20, an amine salt 1-5, and an electrolyte 0.5-5 wt.%. Thus, 17.6 parts distearyldimethylammonium chloride [107-64-2] (75% active) was added to 70 parts water contg. 1 part polyethylene glycol, and 3.7 parts ethoxylated tallow alkylamine and 1.3 parts dodecylbenzenesulfonic acid [27176-87-0] were added to give a gel. The gel was cooled, 0.5 part CaCl₂·2H₂O was added, and the mixt. was cooled to 20° to give a stable product with a viscosity of .apprx.100 cP.

IC D06M013-46; D06M013-44

CC 46-5 (Surface Active Agents and Detergents)

ST fabric softener concd stable; electrolyte stable fabric softener **compn**; amine salt fabric softener stable

IT Softening agents
(quaternary ammonium compds., for textiles, stable concd. **compns.** of)

IT Quaternary ammonium compounds, uses and miscellaneous
RL: **USES (Uses)**
(softening agents, for textiles, stable concd. **compns.** of)

IT Amines, compounds
RL: **USES (Uses)**
(tallow alkyl, ethoxylated, in manuf. of concd., stable textile softening **compns.**)

IT 10043-52-4, uses and miscellaneous
RL: **USES (Uses)**
(electrolytes, in regulation of viscosity of concd. quaternary ammonium softening agent **compns.**)

IT 57-11-4P, preparation 27176-87-0
RL: **USES (Uses)**
(in manuf. of concd., stable textile fabric softening **compns.**)

IT 107-64-2
RL: **USES (Uses)**
(softening agents, for textiles, concd. stable **compn.** contg)

L36 ANSWER 18 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1984:440233 HCAPLUS
DOCUMENT NUMBER: 101:40233
TITLE: Fabric softeners
PATENT ASSIGNEE(S): Lion Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59047477	A2	19840317	JP 1982-154873	19820906

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JP 62025790
PRIORITY APPLN. INFO.:

B4 19870604

JP 1982-154873

198209
06

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- AB Hygroscopic materials impregnated with **compsn.** contg. a cationic compd., RCON[(CH₂CH₂O)nH](CH₂CH₂O)mH, where R is C7-23 alkyl or alkenyl, n is 0 or 1-20, and m is 1-20, and a C12-22 fatty acid or its salt have improved storage stability and are useful as softeners for laundered fabrics. Thus, a synthetic nonwoven fabric was impregnated with a **compn.** contg. dimethyldistearylammonium Me sulfate [3843-16-1] 75, coconut oil fatty acid amide 5, **polyethylene glycol** nonylphenyl ether 20, and palmitic acid [57-10-3] 10 parts to give a softener with good storage stability. Softness was good in drying together a laundered acrylic jersey and the impregnated material.
- IC D06M013-40; D06M013-20; D06M013-34
- CC 46-5 (Surface Active Agents and Detergents)
- IT Fatty acids, uses and miscellaneous
RL: **USES (Uses)**
(fabric softeners contg., for improved storage stability)
- IT Quaternary ammonium compounds, uses and miscellaneous
RL: **USES (Uses)**
(bis(hydrogenated tallow alkyl)dimethyl, Me sulfates, fabric softeners, contg. lauric acid monoethanolamide and fatty acids, with improved storage stability)
- IT Amides, uses and miscellaneous
RL: **USES (Uses)**
(coco, fabric softeners contg. quaternary ammonium compds., palmitic acid and)
- IT Quaternary ammonium compounds, uses and miscellaneous
RL: **USES (Uses)**
(tetraalkyl, fabric softeners, contg. fatty acid amides and fatty acids, with improved storage stability)
- IT 3843-16-1
RL: **USES (Uses)**
(fabric softener, contg. fatty acid amides and palmitic acid, with improved storage stability)
- IT 142-78-9
RL: **USES (Uses)**
(fabric softeners contg. quaternary ammonium compds., fatty acids and)
- IT 120-40-1
RL: **USES (Uses)**
(fabric softeners contg. quaternary ammonium compds., palmitic acid and)
- IT 57-10-3, uses and miscellaneous 57-11-4, uses and miscellaneous 112-85-6 143-07-7, uses and miscellaneous 544-63-8, uses and miscellaneous
RL: **USES (Uses)**
(fabric softeners contg., for improved storage stability)
- IT 89004-51-3
RL: **USES (Uses)**
(fabric softeners, contg. lauric acid diethanolamide and palmitic acid, with improved storage stability)

L36 ANSWER 19 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1984:158588 HCAPLUS

DOCUMENT NUMBER: 100:158588

TITLE: Fabric softeners

PATENT ASSIGNEE(S): Lion Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 58174679	A2	19831013	JP 1982-57779	198204 07
JP 01052505	B4	19891109	JP 1982-57779	198204 07

AB Hygroscopic materials impregnated with mixts. contg. a cationic softener, RCON[(CH₂CH₂O)nH](CH₂CH₂O)mH, where R is C7-23 alkyl or alkenyl group, n is 0 or 1-20, and m is 1-20, and a fatty acid ester or an ethoxylated alc., ethoxylated alkylphenol, or ethoxylated oil, are useful as fabric softeners. Thus, a polyurethane foam was impregnated with 95:5 (wt. ratio) mixt. of a 80:20 (wt. ratio) compn. contg. dimethyldipalmitylammonium Me sulfate [60804-35-5] and lauroyldiethanolamide [120-40-1] and polyethylene glycol nonylphenyl ether [9016-45-9]. Fabric softness and antistatic property were good on rinsing together an acrylic fabric and the impregnated foam.

IC D06M013-34

CC 46-5 (Surface Active Agents and Detergents)

IT Coconut oil

RL: **USES (Uses)**
(fatty acid amides of, fabric softeners, contg. cationic compds. and esters)

IT Oils

RL: **USES (Uses)**
(palm, fatty acids of, Me esters, fabric softeners contg.)

IT Quaternary ammonium compounds, uses and miscellaneous

RL: **USES (Uses)**
(softeners, contg. fatty acid amides and esters, for fabrics)

IT Quaternary ammonium compounds, uses and miscellaneous

RL: **USES (Uses)**
(bis(hydrogenated tallow alkyl)dimethyl, softeners, contg. fatty acid amides and poly(oxyethylene) ethers, for fabrics)

IT 111-60-4 1338-41-6 9002-92-0 9016-45-9 34383-57-8
89636-75-9

RL: **USES (Uses)**
(softeners, contg. cationic compds. and fatty acid amides, for fabrics)

IT 142-58-5

RL: **USES (Uses)**
(softeners, contg. cationic compds. and fatty acid esters, for fabrics)

IT 7545-24-6

RL: **USES (Uses)**
(softeners, contg. cationic compds. and poly(oxyethylene) esters, for fabrics)

IT 93-82-3

RL: **USES (Uses)**
(softeners, contg. cationic compds. and poly(oxyethylene) ethers, for fabrics)

IT 89004-51-3

RL: **USES (Uses)**
(softeners, contg. fatty acid amides and ethylene glycol monostearate, for fabrics)

IT 89004-55-7

RL: **USES (Uses)**
(softeners, contg. fatty acid amides and poly(oxyethylene))

esters, for fabrics)
 IT 60804-35-5
 RL: USES (Uses)
 (softeners, contg. fatty acid amides and poly(oxyethylene)
 ethers, for fabrics)
 IT 3843-16-1
 RL: USES (Uses)
 (softeners, contg. fatty acid amides, and sorbitan monostearate,
 for fabrics)
 IT 64674-97-1 66788-64-5
 RL: USES (Uses)
 (softeners, contg. palmityl diethanolamides and poly(oxyethylene)
 esters, for fabrics)
 IT 120-40-1
 RL: USES (Uses)
 (softeners, contg. poly(oxyethylene) ethers and cationic compds.,
 for fabrics)

L36 ANSWER 20 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1984:87695 HCAPLUS

DOCUMENT NUMBER: 100:87695

TITLE: Concentrated laundry softener

INVENTOR(S): Stuehler, Herbert; May, Adolf; Buecking, Hans
 Walter; Schreiber, Manfred

PATENT ASSIGNEE(S): Hoechst A.-G. , Fed. Rep. Ger.

SOURCE: Ger. Offen., 12 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3218667	A1	19831124	DE 1982-3218667	198205 18
EP 94655	A2	19831123	EP 1983-104774	198305 14
EP 94655	A3	19840104		
EP 94655	B1	19860312		
EP 94655	B2	19900321		
R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
AT 18573	E	19860315	AT 1983-104774	198305 14
DK 8302186	A	19831119	DK 1983-2186	198305 17
JP 58208468	A2	19831205	JP 1983-85158	198305 17
BR 8302605	A	19840117	BR 1983-2605	198305 17

PRIORITY APPLN. INFO.:

DE 1982-3218667

A

198205

18

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EP 1983-104774 A 198305
14
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OTHER SOURCE(S): MARPAT 100:87695

AB Concd. aq. laundry softeners with good storage stability and cold-water dispersibility comprise (a) a quaternary ammonium or imidazolinium salt 6-30, (b) a fatty amine polyglycol ether 0.05-35, (c) an oxyalkylenated fatty alc. or acid, a poly-C2-3-alkylene glycol or its ether deriv., or a graft copolymer of ethylene oxide and propylene oxide 0.05-35, (d) a C1-3 alc. 3-20, (e) an acid in molar amt. equiv. to b, and (f) water and optional additives to 100%. A typical compn. consists of 15% dimethyldistearylammonium chloride [107-64-2], 1% ethylene oxide-stearylamine adduct [26635-92-7] (1:25), 1% ethoxylated lanolin acid, 2.5% isopropanol [67-63-0], 3 mL H2SO4, 2 mL 10% MgCl2 soln., and water, perfume and dye to 100%.

IC D06M013-46; D06M013-38; D06M013-18; C11D001-62

CC 46-5 (Surface Active Agents and Detergents)

IT Quaternary ammonium compounds, uses and miscellaneous
RL: USES (Uses)
(bis(tallow alkyl)(hydroxypropyl)methyl, chlorides, softening agents, aq. concns. contg., for textiles)

IT Imidazolium compounds
RL: USES (Uses)
(dihydro, softening agents, storage-stable and water-dispersible aq. concns. contg., for textiles)

IT Fatty acids, esters
RL: USES (Uses)
(lanolin, hydroxyalkyl esters, softener compns. contg., concd. aq., for textiles)

IT 67-63-0, uses and miscellaneous 106-11-6 9003-11-6 16057-43-5
25322-68-3 26635-92-7 26635-93-8 83826-32-8 88774-53-2
RL: USES (Uses)
(softener compns. contg., concd. aq., for fabrics)

IT 107-64-2
RL: USES (Uses)
(softening agents, aq. concns. contg., storage-stable and water-dispersible)

L36 ANSWER 21 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1983:472618 HCAPLUS
DOCUMENT NUMBER: 99:72618
TITLE: Concentrated premixes of fabric softeners
INVENTOR(S): May, Adolf; Buecking, Hans Walter; Schreiber, Manfred
PATENT ASSIGNEE(S): Hoechst A.-G., Fed. Rep. Ger.
SOURCE: Ger. Offen., 12 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3150179	A1	19830623	DE 1981-3150179	19811218
US 4476030	A	19841009	US 1982-448305	19821209

EP 82456 A2 19830629 EP 1982-111555 198212
13

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EP 82456      A3      19841128
EP 82456      B1      19861015
      R:  AT, BE, CH, DE, FR, GB, IT, LI, NL, SE
AT 22919      E      19861115      AT 1982-111555

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JP 58109681 A2 19830630 JP 1982-220387 198212
17

JP 03025549 B4 19910408
ZA 8209282 A 19830928 ZA 1982-9282

198212
17

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BR 8207359	A	19831018	BR 1982-7359
			198212 17

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CA 1193403	A1	19850917	CA 1982-417988
			198212 17

PRIORITY APPLN. INFO.: DE 1981-3150179 A 19811218

EP 1982-111555 A 198212
13

OTHER SOURCE(S): MARPAT 99:72618

AB Liq. concs. are prepd. by mixing a fabric softener, such as dimethyldistearylammonium chloride (I) [107-64-2] or an imidazolium compds., with an ethoxylated amine and with C13-17 paraffins, a polyalkylene glycol, a fatty alc., a fatty acid ester, etc. The compns. are stable during storage and handling. Thus, a liq. conc. comprising I 40, C13-17 paraffins 45, and ethoxylated (2 mol) oleylamine 15% had a viscosity of 700 mPas.

IC D06M013-36; C11D003-26

CC 46-5 (Surface Active Agents and Detergents)

IT Onium compounds
 RL: **USES (Uses)**
 (imidazolium, fabric softeners, liq. concs. contg.)

IT 75-21-8D, reaction products with fatty amines 123-95-5
 124-30-1D, ethoxylated 143-28-2 1838-19-3D, ethoxylated
 9004-81-3 25322-68-3 25322-69-4 27458-93-1
 RL: **USES (Uses)**
 (fabric softening concs. contg.)

IT 107-64-2
 RL: **USES (Uses)**
 (softening agents, for textiles, liq. concs. contg.)

L36 ANSWER 22 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1983:128157 HCAPLUS

DOCUMENT NUMBER: 98:128157

TITLE: Concentrated softening agent
compositions for textiles

INVENTOR(S): Jacques, A.; Grandmaire, J. P.

PATENT ASSIGNEE(S): Colgate-Palmolive Co., USA

SOURCE: Belg., 14 pp.
 CODEN: BEXXAL
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
BE 893887	A1	19830120	BE 1982-208632	198207 20
ZA 8304209	A	19850130	ZA 1983-4209	198206 15
DE 3225687	A1	19831222	DE 1982-3225687	198207 09
DE 3225687 FR 2528864	C2 A1	19911121 19831223	FR 1982-12357	198207 15
FR 2528864 DK 8302815	B1 A	19870507 19831223	DK 1983-2815	198306 17
DK 165336 DK 165336 SE 8303507	B C A	19921109 19930329 19831223	SE 1983-3507	198306 20
SE 462050 SE 462050 AU 8315961	B C A1	19900430 19900823 19840105	AU 1983-15961	198306 20
AU 558320 NO 8302245	B2 A	19870129 19831223	NO 1983-2245	198306 21
NO 163629 NO 163629 GB 2122662	B C A1	19900319 19900627 19840118	GB 1983-16857	198306 21
GB 2122662 BR 8303280	B2 A	19860122 19840207	BR 1983-3280	198306 21
ES 523460	A1	19841116	ES 1983-523460	198306 21
CA 1208854	A1	19860805	CA 1983-430819	198306

21

NL 8302227 A 19840116 NL 1983-2227

198306
22

CH 655332 A 19860415 CH 1983-3420

198306
22

ES 530347 A1 19850516 ES 1984-530347

198403
07

PRIORITY APPLN. INFO.:

US 1982-390411

A

198206
22

AB Concd., stable softener **comps.** for textiles, useful in
rinse cycles, comprise 12-20% cationic softener RR1R2R3N+ X-, where
R-R3 are C1-30 aliph. groups with ≥ 2 groups being C14-30,
1-5% of a nonionic surfactant with HLB 16.5 ± 1 , and 0.5-5% of an
electrolyte. Thus, 2 parts **polyethylene glycol**
nonylphenyl ether [9016-45-9] (16 mol ethylene oxide) was
dissolved in 75 parts H2O at 70°, 20 parts of 75%
dimethyldistearylammonium chloride [107-64-2] in aq.
iso-PrOH in the form of a melt (55°) slowly added, and the
mixt. stirred to give a gel. The gel was cooled to 40°, 0.5
part CaCl2 added, and the gel cooled to .apprx.20° with
stirring to give a stable product with viscosity .apprx.100 cP.

IC ICS D06

CC 46-4 (Surface Active Agents and Detergents)

ST concd stable softening **compn**; textile softening
compn

IT Softening agents

(concd., stable **comps.** contg., for textiles)

IT Quaternary ammonium compounds, uses and miscellaneous

RL: **USES (Uses)**(softening agents, stable concd. **comps.** contg., for
textiles)

IT Surfactants

(nonionic, concd., stable softening **comps.** contg., for
textiles)IT 107-64-2 9016-45-9 10043-52-4, uses and miscellaneous
25322-68-3RL: **USES (Uses)**(concd., stable softening **comps.** contg., for textiles)

L36 ANSWER 23 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1983:5738 HCAPLUS

DOCUMENT NUMBER: 98:5738

TITLE: Fabric conditioning **compositions**

INVENTOR(S): Cukier, Samuel; Khan, Irshad A.

PATENT ASSIGNEE(S): Domtar, Inc., Can.

SOURCE: Can., 16 pp.
CODEN: CAXXA4

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 1130059	A1	19820824	CA 1979-341576	197912

CA 1130059

A1

19820824

CA 1979-341576

197912

10

PRIORITY APPLN. INFO.:

CA 1979-341576

197912

10

AB The title **compns.**, pumpable at room temp. and water-dispersible, contain diluents 15-35, quaternary ammonium salts 50-80, and C18-28 **fatty alc.** and/or acid phosphate esters 5-30%. Thus, a mixt. of water 8, iso-PrOH 17, (C18H37)2NMe2+ Cl- [107-64-2] 65, and Epal C20+ (mixt. of .apprx.65% C18-22 alcs. and 35% C20-40 hydrocarbons) 10% was softer and more homogeneous than a similar **compn.** contg. 75% quaternary ammonium compd. A 5% emulsion of this mixt. in water as a softener for terrycloth was as effective as a **compn.** contg. quaternary ammonium compds. 75, iso-PrOH 17, and water 8%, and better than a com. fabric softener.

IC D06M013-46

CC 46-5 (Surface Active Agents and Detergents)

Section cross-reference(s): 40

ST quaternary ammonium salt softener; softener fabric **compn.**; alc fatty fabric softener; phosphate ester fabric softener

IT Alcohols, uses and miscellaneous

RL: **USES (Uses)**

(fatty, fabric softeners, as pumpable base mixts.)

IT 107-64-2 7664-38-2D, esters with fatty alcs. 57608-56-7

RL: **USES (Uses)**

(fabric softeners, as pumpable base mixts.)

L36 ANSWER 24 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1982:618479 HCAPLUS

DOCUMENT NUMBER: 97:218479

TITLE: Fabric conditioner for postlaundering use

INVENTOR(S): Blum, Rainer; Ueberschaer, Klaus

PATENT ASSIGNEE(S): Ger. Dem. Rep.

SOURCE: Ger. (East), 10 pp.

CODEN: GEXXA8

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 154712	Z	19820414	DD 1980-222525	198007 10

PRIORITY APPLN. INFO.:

DD 1980-222525

198007

10

AB Alkyl phosphates (optionally contg. sulfurized **fatty alcs.**) or quaternary ammonium compds. are used with acids, fatty diethanolamides, and optionally ethoxylated alcs. in conditioners for laundered fabrics. The **compns.** provide softening, sizing, and antistatic effects: Thus, a finish contained C16-26 fatty diethanolamides 2.5, ethoxylated (d.p. 3) C10-20 alcs. 15, (C18H37)2NMe2+ Cl- [107-64-2] 6, defoamer 0.03, perfume 0.9, AcOH 8, and water 67.57%.

IC C11D001-86

CC 46-5 (Surface Active Agents and Detergents)

IT Antistatic agents

Softening agents

Quaternary ammonium compounds, uses and miscellaneous

RL: **USES (Uses)**

(in textile conditioners for postwash use)

IT 107-64-2 111-42-2D, amides with fatty acids 18684-11-2
 25322-68-3D, monoalkyl ethers, phosphates, salts 83766-78-3

RL: **USES (Uses)**

(in textile conditioners for postwash use)

L36 ANSWER 25 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1982:599882 HCAPLUS
 DOCUMENT NUMBER: 97:199882
 TITLE: Disinfecting cleaning promoter for dry cleaning
 INVENTOR(S): Hasenclever, Kaspar D.
 PATENT ASSIGNEE(S): Chemische Fabrik Kreussler und Co. G.m.b.H.,
 Fed. Rep. Ger.
 SOURCE: Ger. Offen., 13 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3111158	A1	19820930	DE 1981-3111158	198103 21
DE 3111158	C2	19830303	<--	
FR 2502170	A1	19820924	FR 1982-4638	198203 18
FR 2502170	B1	19860502	<--	
GB 2095277	A	19820929	GB 1982-8049	198203 19
GB 2095277	B2	19841219	<--	
US 4406809	A	19830927	US 1982-360635	198203 22
PRIORITY APPLN. INFO.:			DE 1981-3111158	198103 21

OTHER SOURCE(S): MARPAT 97:199882

AB Additives for dry-cleaning solvents are prepd. which contain ≥ 1 quaternary ammonium chloride (disinfectant), a nonionic surfactant, water, and a diammonium salt of $\text{HO}_2\text{C}(\text{CH}_2)_n\text{CO}_2\text{H}$ ($n = 2-5$) or a triammonium salt of a tricarboxylic acid (esp. citric or tricarballic) in which the ammonium groups are derived from tertiary amines such as RNMe_2 and $\text{HOC}_2\text{H}_4\text{OCH}_2\text{N}(\text{C}_2\text{H}_4\text{OH})_2$ ($R = \text{C}_8-18$ alkyl). The additives give good cleaning and disinfectant activity and inhibit graying caused by dye transfer between colored and white fabrics. Thus, an additive comprising citric acid coco alkyldimethylamine salt (1:3) 15, $(\text{C}_{10}\text{H}_{21})_2\text{NMe}_2\text{Cl}$ [7173-51-5] 10, $\text{R}_2\text{NMe}_2\text{Cl}$ ($R = \text{coco alkyl}$) 15, ethoxylated (7 mol) C_{12-14} fatty alcs. 15, ethoxylated (5 mol) nonylphenol 20, and water 25% was used (10 g/L) in $\text{C}_{12}\text{C:CC}_{12}$ [127-18-4] during the cleaning of a mixt. of white and blue cotton fabrics. The decrease in whiteness of the white fabrics was 3.2%, compared with 16% when the additive did not contain the citric acid salt. The citric acid salt also improved the bactericidal activity of the additive against *Staphylococcus aureus*

and pseudomonas aeruginosa.
 IC C11D003-26; C11D003-48; D06L001-12
 CC 46-5 (Surface Active Agents and Detergents)
 IT Quaternary ammonium compounds, uses and miscellaneous
 RL: **USES (Uses)**
 (dry-cleaning additives contg., with bactericidal and antigraying activity)
 IT **Detergents**
 (dry-cleaning, additives for, with bactericidal and antigraying activity)
 IT Quaternary ammonium compounds, compounds
 RL: **USES (Uses)**
 (salts, dry-cleaning additives contg., with bactericidal and antigraying activity)
 IT 77-92-9D, salts with tertiary amines 7173-51-5 9016-45-9
 26183-52-8 27306-79-2 83701-27-3 83701-29-5 83701-30-8
 83701-31-9 83701-32-0 83701-33-1
 RL: **USES (Uses)**
 (dry-cleaning additives contg., with bactericidal and antigraying activity)
 IT 127-18-4, uses and miscellaneous
 RL: **USES (Uses)**
 (dry-cleaning solvents, additives for, with bactericidal and antigraying activity)

L36 ANSWER 26 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1982:494452 HCAPLUS
 DOCUMENT NUMBER: 97:94452
 TITLE: Dry-cleaning compositions
 PATENT ASSIGNEE(S): Lion Corp., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 57053600	A2	19820330	JP 1980-128023	198009 17
JP 59010759	B4	19840310	JP 1980-128023	198009 17

AB Dry-cleaning compns. contain 5-80% solvents and a compn. comprising quaternary ammonium cationic surfactants 15-50, dialkyl sulfosuccinates 3-20, and nonionic surfactants 30-80%. Thus, a cleaning compn. contained 40% petroleum solvent and 60% surfactants contg. bis(hydroxyethyl)ethylstearylammium chloride [65270-81-7] 35, Na dioctyl sulfosuccinate (I) [577-11-7] 15, poly(oxyethylene) nonylphenyl ether [9016-45-9] 50%. The compn. had detergency 88%, soil redeposition power (cotton) 95%, water-holding power 7.5 mL, good antistatic properties, and good softness, compared with 79, 89, 2, good, and good, resp., for compn. having linear dodecylbenzenesulfonic acid triethanolamine salt in place of I.
 IC C11D007-50; C11D001-28; C11D001-62; C11D001-66
 CC 46-5 (Surface Active Agents and Detergents)
 ST petroleum solvent dry cleaning compn; dry cleaning compn; surfactant dry cleaning compn; sulfosuccinate surfactant dry cleaning compn; nonionic

surfactant dry cleaning compn
 IT Quaternary ammonium compounds, uses and miscellaneous
 RL: **USES (Uses)**
 (dry-cleaning compns., contg. solvents, nonionic
 surfactants and dialkyl sulfosuccinates)
 IT 128-49-4 577-11-7 82692-55-5
 RL: **USES (Uses)**
 (dry-cleaning compns., contg. cationic and nonionic
 surfactants and solvents)
 IT 120-40-1 9002-92-0 9004-98-2 9016-45-9 9036-19-5
 RL: **USES (Uses)**
 (dry-cleaning compns., contg. cationic surfactants,
 dialkyl sulfosuccinates and solvents)
 IT 18448-65-2 28228-59-3 65270-81-7 82684-81-9
 RL: **USES (Uses)**
 (dry-cleaning compns., contg. solvents, dialkyl
 sulfosuccinates and nonionic surfactants)

L36 ANSWER 27 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1982:183204 HCAPLUS

DOCUMENT NUMBER: 96:183204

TITLE: Quaternary ammonium derivatives of fatty acid
 dialkylaminoalkylamides

INVENTOR(S): Drimus, Iosif; Cretu, Steliana; Parausanu,
 Victor; Ionita, Gheorghe; Stoica, Maria; Andome,
 Doina; Ponoran, Ileana; Invancenco, Sergiu

PATENT ASSIGNEE(S): Intreprinderea de Sapun "Stela", Rom.

SOURCE: Rom., 9 pp.

CODEN: RUXXA3

DOCUMENT TYPE: Patent

LANGUAGE: Romanian

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RO 71045	B	19810831	RO 1976-86663	197607 02

PRIORITY APPLN. INFO.:

RO 1976-86663

A

197607
02

AB Quaternization of Et₂N(CH₂)₃NHOCR (R = C₁₁₋₂₆ alkyl) with monohalo
 acids, e.g., CH₂ClCO₂H (I) [79-11-8], in solvents such as iso-PrOH
 and glycerol 2-12 h at 60-140° gave surfactants, useful as
 antistatic and softening agents for fabrics. Thus, impure
 N,N-diethyl-3-oleamidopropylamine [31953-52-3] (contg. 10% PhMe
 870, I 208, and iso-PrOH 600 parts were heated 4 h at 80°
 with strong stirring to give N,N-diethyl-N-carboxymethyl-3-
 oleamidopropylammonium chloride (II) [45305-91-7] (Cl
 content 7.12% and purity 99.5%). Polyamide textiles were treated
 with a bath contg. 3 g/L homogeneous compn. contg. 584
 parts II and 2920 parts 50% aq. polyethylene
 glycol (mol. wt. 1500) to give samples with surface
 resistivity 2.72 + 10¹¹ Ω and surface-charge d. +3.14
 + 10-10 coulombs/cm².

IC C07C087-68

CC 46-3 (Surface Active Agents and Detergents)

Section cross-reference(s): 23, 40

IT Acrylic fibers, uses and miscellaneous
 Polyamide fibers, uses and miscellaneous
 Polyester fibers, uses and miscellaneous

RL: **USES (Uses)**

(antistatic and softening agents for, fatty acid amidopropyl quaternary ammonium compds. as)
 IT Rayon, uses and miscellaneous
 RL: **USES (Uses)**
 (polyester fiber blends with, softening agents for, fatty acid amidopropyl quaternary ammonium compds. as)
 IT 45305-91-7P 72325-51-0P 72325-54-3P
 RL: TEM (Technical or engineered material use); PREP (Preparation);
USES (Uses)
 (surfactants, manuf. of, for finishing of textiles)

L36 ANSWER 28 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1982:70815 HCAPLUS
 DOCUMENT NUMBER: 96:70815
 TITLE: Improved detergent **composition**
 INVENTOR(S): Green, Howard Wallis; Baron von Berg, Michael Guenther
 PATENT ASSIGNEE(S): Carr and Day and Martin Ltd., UK
 SOURCE: Brit., 3 pp.
 CODEN: BRXXAA
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1595903	A	19810819	GB 1977-15815	19770415

PRIORITY APPLN. INFO.: GB 1977-15815 A 19770415

AB A detergent **compn.** for simultaneous cleaning and softening of textiles comprises a nonionic detergent 10-20, quaternary ammonium softening agent 5-15, a tertiary amine oxide 1-5, and an alkali metal phosphate and/or silicate 40-84%. Thus, 2-4 oz powd. detergent **compn.** comprising anhyd. Na metasilicates 40, Na tripolyphosphate 30, **ethoxylated fatty alc.** nonionic detergent 5, anhyd. Na₂SO₄ filler 7.5, dimethyldistearylammonium chloride [107-64-2] 5, trimethylcetylammonium chloride [112-02-7] 5, bis(2-hydroxyethyl)tallow amine oxide 5, Ultramarine 2, and lemon perfume 0.5% when added to a 50° cotton wash program gave soft garments which were easy to iron.

IC C11D003-04; C11D003-06; C11D010-02; C11D001-62; C11D001-75; C11D001-835

CC 46-5 (Surface Active Agents and Detergents)

IT Alcohols, compounds

RL: **USES (Uses)**
 (fatty, ethoxylated, nonionic detergent **compns.** contg., for simultaneous cleaning and softening of textiles)

IT Detergents
 (nonionic, **compns.** contg., for simultaneous cleaning and softening of textiles)

IT Amines, oxides

RL: **USES (Uses)**
 (tallow alkyl, stabilizers, detergent **compns.** contg., for simultaneous cleaning and softening of textiles)

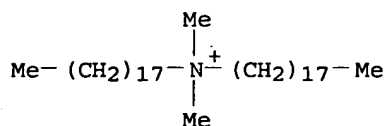
IT 107-64-2 112-02-7

RL: **USES (Uses)**
 (softening agents, detergent **compns.** contg., for simultaneous cleaning and softening of textiles)

L36 ANSWER 29 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1981:194032 HCAPLUS
 DOCUMENT NUMBER: 94:194032
 TITLE: Laundry detergent compositions having
 enhanced greasy and oily soil removal
 performance
 INVENTOR(S): Murphy, Alan P.
 PATENT ASSIGNEE(S): Procter and Gamble Co., USA
 SOURCE: U.S., 24 pp. Cont.-in-part of U.S. Ser. No.
 884,466, abandoned.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4259217	A	19810331	US 1978-919181	197806 26
EP 235	A1	19790110	EP 1978-200065	197806 28
R: BE, CH, DE, FR, GB, NL, SE NL 7815011	A	19790928	NL 1978-15011	197806 28
DE 2857157	A1	19800327	DE 1978-2857157	197806 28
DE 2857157 DE 2857157 GB 2040984	C2 C3 A	19881229 19920709 19800903	GB 1979-22538	197806 28
GB 2040984 CH 648344	B2 A	19821103 19850315	CH 1980-2910	197806 28
AT 7804692	A	19861215	AT 1978-4692	197806 28
AT 396690 BR 7804164	B A	19931125 19790220	BR 1978-4164	197806 29
JP 54039412	A2	19790326	JP 1978-79227	197806 29
AU 7837596	A1	19800103	AU 1978-37596	197806 29
AU 524807	B2	19821007		

CA 1109755	A1	19810929	CA 1978-306474		197806 29
			<--		
BE 10	T1	19790427	BE 1979-TR10		197904 27
			<--		
FR 2416944	A1	19790907	FR 1979-11109		197905 02
			<--		
FR 2416944	B1	19840810			
SE 7906524	A	19790801	SE 1979-6524		197908 01
			<--		
SE 449372	B	19870427			
SE 449372	C	19870806			
PRIORITY APPLN. INFO.:			US 1977-811220	A2	197706 29
			<--		
			US 1977-852187	A2	197711 16
			<--		
			US 1978-884466	A2	197803 07
			<--		
			US 1978-919181	A	197806 26
			<--		
			EP 1978-200065	A	197806 28
			<--		
			EP 1979-78200065	A	197901 10
			<--		
AB	Compounding nonionic surfactants with quaternary ammonium compds. and inorg. salts gave title products. Thus, a formulation contg. polyoxyethylene alkyl ether 53.6, cocoalkyltrimethylammonium chloride 6.8, Na2CO3 33.8, and Na silicate 5.8% exhibited 24 and 12 grease-oil and clay removal grade, as compared with 78 and 18 oil and clay removal grade for std. granular detergent, resp.				
IT	107-64-2 112-02-7 RL: USES (Uses) (laundry detergents, contg. polyethylene glycol alkyl ethers, with improved oil and soil removing capacity)				
RN	107-64-2 HCAPLUS				
CN	1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)				

● Cl⁻

RN 112-02-7 HCAPLUS
 CN 1-Hexadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

IC C11D001-38; C11D007-32
 INCL 252547000
 CC 46-5 (Surface Active Agents and Detergents)
 ST polyoxyethylene laundry detergent compn;
 cocoalkyltrimethylammonium chloride laundry detergent compn
 IT Alcohols
 RL: **USES (Uses)**
 (C12-14-secondary, ethoxylated, laundry detergents, contg. quaternary ammonium compds., with improved oil and soil removing capacity)
 IT 497-19-8, uses and miscellaneous 1344-09-8 7757-82-6, uses and miscellaneous 7758-29-4
 RL: **USES (Uses)**
 (laundry detergents, contg. polyethylene glycol alkyl ether and quaternary ammonium compds.)
 IT 107-64-2 112-02-7
 RL: **USES (Uses)**
 (laundry detergents, contg. polyethylene glycol alkyl ethers, with improved oil and soil removing capacity)
 IT 98-11-3D, alkyl derivs., sodium salts
 RL: **USES (Uses)**
 (laundry detergents, contg. quaternary ammonium compds. and sodium sulfate)
 IT 25322-68-3D, alkyl ethers
 RL: **USES (Uses)**
 (laundry detergents, contg. quaternary ammonium compds., with improved oil and soil removing capacity)
 IT 57-13-6, uses and miscellaneous
 RL: **USES (Uses)**
 (polyethylene glycol alkyl ether contg. quaternary ammonium compds. and, as laundry detergents)

L36 ANSWER 30 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1981:105297 HCAPLUS
 DOCUMENT NUMBER: 94:105297
 TITLE: Post-washing softeners
 INVENTOR(S): Weber, Rudolf
 PATENT ASSIGNEE(S): Henkel K.-G.a.A., Fed. Rep. Ger.
 SOURCE: Ger. Offen., 20 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent

LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2925859	A1	19810122	DE 1979-2925859	197906 27

PRIORITY APPLN. INFO.: DE 1979-2925859 A 197906
27

AB A quaternary ammonium group-contg. polygalactomannan (guar) ether (e.g., Gendriv 162) is used with a quaternary ammonium salt and, in some cases, a fatty acid-hydroxyalkylpolyamine condensate to prep. liq. compns. which are added to washed fabrics during rinsing to impart softness to the fabrics without decreasing their capacity to absorb moisture. Thus, a softening compn. contained dimethyldistearylammonium chloride [107-64-2] 2, 1:1 (molar) tallow-HO(CH₂CH₂NH)2H condensate 1.5, Gendriv 162, 3.5, ethoxylated (12 mols) cetyl stearyl alc. 0.4, polyethylene glycol (mol. wt. 400) 0.4, 40% formalin 0.1, perfume 0.2, and water 91.9%.
IC C11D001-62; C11D001-645
CC 46-4 (Surface Active Agents and Detergents)
IT Quaternary ammonium compounds, uses and miscellaneous
RL: USES (Uses)
(softening agents, for textiles, contg. cationic guar derivs. for moisture absorption)
IT 9000-30-0D, cationic derivs. 65997-71-9
RL: USES (Uses)
(fabric softeners contg., for improved moisture absorption)
IT 107-64-2 111-41-1D, amides with fatty acids
RL: USES (Uses)
(softening agents, for textiles, contg. cationic guar derivs. for moisture absorption)

L36 ANSWER 31 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1981:49147 HCAPLUS
DOCUMENT NUMBER: 94:49147
TITLE: Detergent for textiles
INVENTOR(S): Andree, Hans
PATENT ASSIGNEE(S): Henkel K.-G.a.A., Fed. Rep. Ger.
SOURCE: Ger. Offen., 15 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2918364	A1	19801120	DE 1979-2918364	197905 07
EP 18630	A1	19801112	EP 1980-102333	198004 30

R: AT, BE, CH, DE, FR, IT, NL
BR 8002782 A 19801216 BR 1980-2782

198005
06

PRIORITY APPLN. INFO.:

DE 1979-2918364

A

197905
07

AB Detergents contg. **ethoxylated alcs.**,
fatty ethanolamides, and fabric softeners (quaternary
ammonium compds.) are useful for the simultaneous washing and
conditioning of textiles. A suitable detergent contains ethoxylated
tallow alc. (d.p. 14) 7, coconut fatty acid ethanolamide (Comperlan
100) 3, (C18H37)NMe2+ Cl- [107-64-2] (Arosurf TA 100) 5,
and builders-additives-H2O 85%.

IC C11D001-835

CC 46-5 (Surface Active Agents and Detergents)

IT Quaternary ammonium compounds, uses and miscellaneous
RL: **USES (Uses)**
(fabric softeners, in laundry detergents)

IT Amides, uses and miscellaneous
RL: **USES (Uses)**
(coco, hydroxyethyl, in laundry detergents contg. fabric
softeners)

IT **Detergents**
(laundry, contg. fabric softeners)

IT 107-64-2 76326-30-2
RL: **USES (Uses)**
(fabric softeners, in laundry detergents)

IT 25322-68-3D, fatty alkyl ethers
RL: **USES (Uses)**
(in fabric-softening laundry detergents)

L36 ANSWER 32 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1980:588129 HCAPLUS

DOCUMENT NUMBER: 93:188129

TITLE: Concentrated softening compositions
for textiles

INVENTOR(S): Koehler, Siegfried; Gogolin, Heinz

PATENT ASSIGNEE(S): Dalli-Werke Maeurer und Wirtz, Fed. Rep. Ger.

SOURCE: Ger. Offen., 9 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2905881	A1	19800828	DE 1979-2905881	197902 16

PRIORITY APPLN. INFO.:

DE 1979-2905881

A

197902
16

AB The concd. softening **comps.** contain a cationic softening
agent, such as dimethyldistearylammonium chloride (I) [107-64-2],
water, MgCl2, and **ethoxylated fatty alcs.**, have good gelling resistance during
storage, and are useful for addn. to laundered textiles during
rinsing. Thus, a softening **compn.** contained I 12, an
imidazolinium salt 5, MgCl2.6H2O 0.4, ethoxylated (6 mol) C12-15
fatty alcs. 0.5, and water .apprx.82%. The
compn. had viscosity (mPa-s) 53 initially and 132 after 4 wk

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IC      C11D001-38
CC      46-4 (Surface Active Agents and Detergents)
IT      Quaternary ammonium compounds, uses and miscellaneous
        RL: USES (Uses)
            (softening agents, for textiles, concd. aq. solns. of)
IT      107-64-2
        RL: USES (Uses)
            (softeners, for textiles, solubilizers for concd. solns. of)
IT      7786-30-3, uses and miscellaneous
        RL: USES (Uses)
            (solubilizers, for quaternary ammonium compds. as textile
            softeners)
IT      25322-68-3D, monoalkyl ethers
        RL: USES (Uses)
            (textile softener solns. contg. quaternary ammonium compds. and,
            concd.)

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L36 ANSWER 33 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1980:182882 HCAPLUS
DOCUMENT NUMBER: 92:182882
TITLE: Liquid detergents
INVENTOR(S): Daibe, Kazuo; Tokina, Nobuo; Kashiwa, Ichiro
PATENT ASSIGNEE(S): Lion Fat and Oil Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

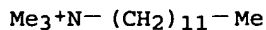
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
JP 54159416	A2	19791217	JP 1978-68534	19780607
			<--	
JP 63037158	B4	19880722		
US 4235759	A	19801125	US 1979-45134	19790604
			<--	
PRIORITY APPLN. INFO.:			JP 1978-68534	A 19780607

AB Anionic **polyethylene glycol** alkyl ether sulfate
Na salts and cationic quaternary ammonium compds. were used to
prepd. detergents which were mild to hands. Thus, a detergent
comprised a **polyethylene glycol** C12-13 alkyl
ether sulfate Na salt 25, octyltrimethylammonium chloride [10108-86-8] 5, EtOH 5, and water 65%.

IT 112-00-5 2271-92-3 4574-04-3
10108-86-8
RL: USES (Uses)
(detergents, contg. **polyethylene glycol** alkyl
ether sulfate sodium salt)

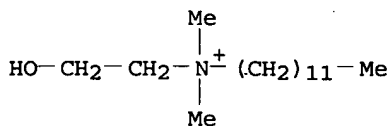
RN 112-00-5 HCAPLUS

CN 1-Dodecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



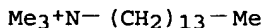
● Cl⁻

RN 2271-92-3 HCAPLUS
 CN 1-Dodecanaminium, N-(2-hydroxyethyl)-N,N-dimethyl-, chloride (9CI)
 (CA INDEX NAME)



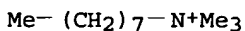
● Cl⁻

RN 4574-04-3 HCAPLUS
 CN 1-Tetradecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 10108-86-8 HCAPLUS
 CN 1-Octanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

IC C11D001-65
 CC 46-5 (Surface Active Agents and Detergents)
 IT Quaternary ammonium compounds, uses and miscellaneous
 RL: **USES (Uses)**
 (detergents, contg. polyethylene glycol alkyl ether sulfate sodium salt)
 IT **Detergents**
 (polyethylene glycol alkyl ether sulfate sodium salts, contg. quaternary ammonium compds.)
 IT 112-00-5 139-07-1 2271-92-3 4574-04-3
 10108-86-8
 RL: **USES (Uses)**
 (detergents, contg. polyethylene glycol alkyl ether sulfate sodium salt)
 IT 25322-68-3D, alkyl ethers, sulfates, salts
 RL: **USES (Uses)**

(detergents, contg. quaternary ammonium compds.)

L36 ANSWER 34 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1978:445379 HCAPLUS
 DOCUMENT NUMBER: 89:45379
 TITLE: Detergents
 PATENT ASSIGNEE(S): Procter and Gamble Co., USA
 SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 53041312	A2	19780414	JP 1977-97423	197708 13
GB 1580456	A	19801203	GB 1976-33787	197608 13
PRIORITY APPLN. INFO.:				197608 13

AB Detergents were prepd. which contained orthophosphates and pyrophosphates as builders and quaternary ammonium compds. as antistatic agents. Thus, a detergent comprised Na alkylbenzenesulfonate (C10-14) 16, C14-22 fatty acids 2.36, 11:1 (molar) **ethoxylated fatty alcs.** 1.6, Na orthophosphate 10, Na pyrophosphate 6, NaCl 6, Na perborate tetrahydrate 30, CM-cellulose 1, Na2SO4 18.43, an enzyme 0.24, a whitening agent 0.13, a perfume 0.18, water 4.5, 25:1 (molar) **ethoxylated alcs.** 1, and dimethyldistearylammonium chloride [107-64-2] 1%.

IC C11D010-02
 CC 46-5 (Surface Active Agents and Detergents)
 IT Quaternary ammonium compounds, uses and miscellaneous
 RL: **USES (Uses)**
 (antistatic agents, detergents contg.)

IT **Detergents**
 (builders for, orthophosphate and pyrophosphate as)

IT 107-64-2
 RL: **USES (Uses)**
 (antistatic agents, detergents contg.)

IT 7722-88-5
 RL: **USES (Uses)**
 (builders, contg. sodium orthophosphate, for detergents)

IT 7632-05-5
 RL: **USES (Uses)**
 (builders, contg. sodium pyrophosphate, for detergents)

L36 ANSWER 35 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1977:569566 HCAPLUS
 DOCUMENT NUMBER: 87:169566
 TITLE: Liquid detergent **composition**
 INVENTOR(S): Meschkat, Ursula; Bimczok, Rudolf
 PATENT ASSIGNEE(S): Exquisit-Kosmetik G.m.b.H., Fed. Rep. Ger.
 SOURCE: Ger. Offen., 5 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German

FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
DE 2605502	A1	19770818	DE 1976-2605502	197602 12
SE 7604127	A	19770103	SE 1976-4127	197604 08
SE 424647	B	19820802		
SE 424647	C	19821111		
NO 7601523	A	19770104	NO 1976-1523	197605 04
NO 146436	B	19820621		
NO 146436	C	19820929		
DK 7602189	A	19770103	DK 1976-2189	197605 18
DK 144798	B	19820607		
DK 144798	C	19821025		
FI 7601456	A	19770103	FI 1976-1456	197605 24
FI 62681	B	19821029		
FI 62681	C	19830210		
ES 449540	A1	19771116	ES 1976-449540	197607 02

PRIORITY APPLN. INFO.:

DE 1975-2529444	A	197507 02
DE 1976-2605420	A	197602 12
DE 1976-2605502	A	197602 12
DE 1976-2609807	A	197603 10

AB The liq. detergent contains an ethoxylated fatty amide (I) (Dionil W 100 [64334-22-1]) and diethyldimyrystylammonium chloride (II) [51277-92-0] and is useful for the cleaning and softening of fine textiles. Thus, a detergent contained I 26, polyethylene glycol dioleate 8, II 2, 40% HCHO soln. 0.3, perfume 0.7, 0.1% dye soln. 0.5, and water 62.5%.

IC C11D001-835

CC 46-5 (Surface Active Agents and Detergents)

IT 25322-68-3D, fatty amide deriv. 64334-22-1

RL: USES (Uses)
(liq. detergents contg. softeners and, for fine fabrics)

IT 51277-92-0

RL: USES (Uses)

(softening agents, liq. detergents contg., for fine fabrics)

L36 ANSWER 36 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1977:454898 HCAPLUS

DOCUMENT NUMBER: 87:54898

TITLE: Liquid detergent **compositions**

INVENTOR(S): Nishimura, Masaaki; Arai, Haruhiko; Kadowaki, Susumu

PATENT ASSIGNEE(S): Kao Soap Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

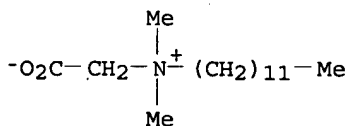
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 52038508	A2	19770325	JP 1975-114576	19750922
JP 54013445	B4	19790531	JP 1975-114576	19750922

PRIORITY APPLN. INFO.: A

AB Liq. detergent **compns.** contg. **polyethylene glycol alkyl ether sulfate** (C8-18 alkyl, d.p. of ethylene oxide 1-5) 5-30, **alkylbetaines** of C10-18 and C1-3 alkyls or fatty acid ethanolamide (R4CONR5CH2CH2OH, where R4 = C8-18 alkyl, R5 = H or hydroxyethyl) 0.1-10, and nonionic surfactants R6O(CH2CH2O)pH, (R6 = C8-18 alkyl, p = 1-4), R7C6H4O(CH2CH2O)nH, (R7 = C6-10 alkyl, p = n), and(or) R8CO2(CH2CH2O)mH (R8 = R6, m = p) 0.3-6% are mild to the skin. Thus, a **compn.** comprising **polyethylene glycol alkyl ether sulfate Na salt 20, polyethylene glycol alkyl ether** (av. C12 alkyl, av. d.p. of ethylene oxide 2) 1.5, dimethylaurylbetaine [683-10-3] 2, EtOH 5, and water 71.5% cleaned grease-soiled dishes well.

IT 683-10-3**RL: USES (Uses)**(detergents, contg. nonionic surfactants and **polyethylene glycol alkyl ether sulfates**, skin-compatible)**RN** 683-10-3 HCAPLUS**CN** 1-Dodecanaminium, N-(carboxymethyl)-N,N-dimethyl-, inner salt (9CI) (CA INDEX NAME)**IC** C11D001-94**CC** 46-3 (Surface Active Agents and Detergents)**IT** Detergents(betaine-nonionic surfactant-polyethylene glycol alkyl ether sulfate **compns.**, skin-compatible)**IT** 120-40-1 142-78-9 683-10-3**RL: USES (Uses)**(detergents, contg. nonionic surfactants and **polyethylene glycol alkyl ether sulfates**, skin-compatible)

L36 ANSWER 37 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1977:173453 HCAPLUS
 DOCUMENT NUMBER: 86:173453
 TITLE: Carrier granule for an organosilane
 INVENTOR(S): Leikhim, John W.; Maguire, Edward J., Jr.;
 Heckert, David C.; Watt, David M., Jr.
 PATENT ASSIGNEE(S): Procter and Gamble Co., USA
 SOURCE: U.S., 17 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4013573	A	19770322	US 1975-570536	19750422

PRIORITY APPLN. INFO.: <-- US 1975-570536 A 19750422

AB To prevent premature polymn. of an organosilane such as (EtO)₃SiCH₂(C₁₂H₂₅)N+Me₂ Cl- (I) [62077-90-1] in detergent compns., granules of an inert material are coated with the organosilane and a water-sol. or water-dispersible, solid, nonionic material, and the granules are added to the detergent compn. The organosilanes are used as components of dishwashing detergents, toilet bowl cleaners, etc., and impart soil release properties to the washed surfaces. Thus, sucrose granules were sprayed with a mixt. of 80% polyethylene glycol (mol. wt. 4000) and 20% I to prep. granules contg. 12% I, which were used (8.5%) in detergents for automatic dishwashers.

IC C11D001-00

INCL 252089000R

CC 46-6 (Surface Active Agents and Detergents)

IT Siloxanes and Silicones, uses and miscellaneous

RL: USES (Uses)

(soil release agents, in detergents, stabilization of)

IT 62077-90-1 62573-02-8 62573-03-9 62573-04-0 62573-05-1
 62573-06-2 62573-07-3 62573-08-4 62573-09-5

RL: USES (Uses)

(soil release agents, in detergents, stabilization of)

L36 ANSWER 38 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1977:108365 HCAPLUS

DOCUMENT NUMBER: 86:108365

TITLE: Laundering adjunct

INVENTOR(S): Jones, J. Paul

PATENT ASSIGNEE(S): Procter and Gamble Co., USA

SOURCE: U.S., 17 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4005029	A	19770125	US 1976-665475	197603

10

CA 993755

A1

19760727

CA 1973-164705

197302

27

PRIORITY APPLN. INFO.:

US 1972-230518

A2

197202

29

US 1973-384529

A1

197308

01

AB Mixts. of a peroxide, such as K monopersulfate (I) [25482-78-4] or diperazelaic acid [1941-79-3], an activator (e.g., a ketone), a zwitterionic surfactant, and buffer compd. were useful for inhibiting dye transfer during laundering, i.e., the dyes suspended or solubilized in the laundering soln. were oxidized. Thus, a mixt. of I 5.76, p-nitroacetophenone [100-19-6] 1.69, hexadecyldimethylammonioacetate [693-33-4] 28.1, ethoxylated (6 mol) fatty alcs. 0.34, Na alkylbenzenesulfonic acid 4.25, Na tallow alkyl sulfate 5.19, NaSP3O10 27.8, and additives and water 26.87% was useful as a dye transfer-inhibiting laundering detergent.

IC C11D007-38

INCL 252099000

CC 46-5 (Surface Active Agents and Detergents)

IT Detergents

(for textiles, contg. oxidizing agents to inhibit dye transfer)

IT 1941-79-3 25482-78-4 37222-66-5

RL: TEM (Technical or engineered material use); USES (Uses)

(detergents contg., as dye transfer inhibitors in laundering)

IT 693-33-4 2281-11-0 32718-38-0

RL: USES (Uses)

(dye transfer-inhibiting laundry detergents contg. peroxides and)

IT 100-19-6 1009-61-6 19437-26-4 62077-86-5 62077-88-7

RL: USES (Uses)

(dye transfer-inhibiting laundry detergents contg. peroxides and, as activators)

L36 ANSWER 39 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1977:6585 HCAPLUS

DOCUMENT NUMBER: 86:6585

TITLE: Softener for textile material

INVENTOR(S): Minegishi, Yutaka; Arai, Haruhiko

PATENT ASSIGNEE(S): Kao Soap Co., Ltd., Japan

SOURCE: Ger. Offen., 19 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2543637	A1	19760923	DE 1975-2543637	197509 30
DE 2543637	B2	19800710		
DE 2543637	C3	19810507		
JP 51105500	A2	19760918	JP 1975-29768	197503 12

US 4038196 A 19770726 US 1975-616621 <--
197509
25

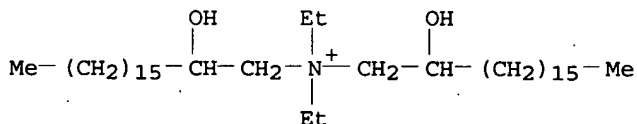
GB 1484526 A 19770901 GB 1975-39344 <--
197509
25

PRIORITY APPLN. INFO.: JP 1975-29768 A <--
197503
12

AB Nongelling, storage-stable, aq. softener dispersions having good recovery from freezing comprise a 3-20% fatty alkyl ammonium chloride deriv. (distearyldimethylammonium chloride [107-64-2]), polyethylene glycol fatty alkyl ether, urea [57-13-6], and NH₄Cl [12125-02-9], NH₄OAc [631-61-8], or a salt of an amine (1:0.06-0.9:0.1-1.5:0.1020-0.27).

IT 60767-86-4
RL: USES (Uses)
(softening agents, contg. polyethylene glycol fatty alkyl ether, urea, and ammonium salts storage-stable, for textiles)

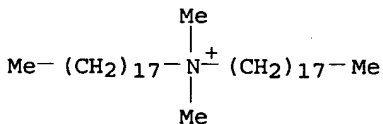
RN 60767-86-4 HCAPLUS
CN 1-Octadecanaminium, N,N-diethyl-2-hydroxy-N-(2-hydroxyoctadecyl)-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

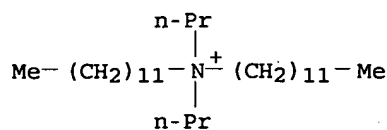
IT 107-64-2 60767-87-5 60767-90-0
61016-57-7
RL: USES (Uses)
(softening agents, contg. polyethylene glycol fatty alkyl ether, urea, and ammonium salts, storage-stable, for textiles)

RN 107-64-2 HCAPLUS
CN 1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)

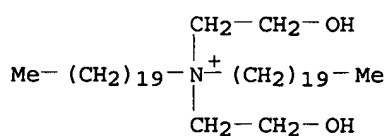


● Cl⁻

RN 60767-87-5 HCAPLUS
CN 1-Dodecanaminium, N-dodecyl-N,N-dipropyl-, bromide (9CI) (CA INDEX NAME)

● Br⁻

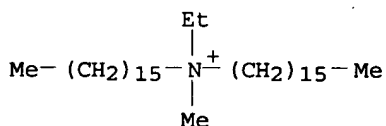
RN 60767-90-0 HCAPLUS
 CN 1-Eicosanaminium, N-eicosyl-N,N-bis(2-hydroxyethyl)-, chloride (9CI)
 (CA INDEX NAME)

● Cl⁻

RN 61016-57-7 HCAPLUS
 CN 1-Hexadecanaminium, N-ethyl-N-hexadecyl-N-methyl-, ethyl sulfate
 (9CI) (CA INDEX NAME)

CM 1

CRN 60767-88-6
 CMF C35 H74 N



CM 2

CRN 48028-76-8
 CMF C2 H5 O4 S

Et-O-SO₃⁻

IC D06M013-46
 CC 46-4 (Surface Active Agents and Detergents)
 IT Textiles
 (softening compns. for, storage-stable)
 IT 637-39-8
 RL: USES (Uses)
 (softening agent concn., storage-stable, for textiles)
 IT 57-13-6, uses and miscellaneous 631-61-8 9002-92-0 9004-98-2
 12125-02-9, uses and miscellaneous 31889-13-1
 RL: USES (Uses)

(softening agent contg., storage-stable, for textiles)
 IT 60767-86-4
 RL: USES (Uses)
 (softening agents, contg. polyethylene glycol
 fatty alkyl ether, urea, and ammonium salts storage-stable, for
 textiles)
 IT 107-64-2 60767-87-5 60767-90-0
 61016-57-7
 RL: USES (Uses)
 (softening agents, contg. polyethylene glycol
 fatty alkyl ether, urea, and ammonium salts, storage-stable, for
 textiles)

L36 ANSWER 40 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1976:526261 HCAPLUS
 DOCUMENT NUMBER: 85:126261
 TITLE: Laundry softening composition with
 disinfecting properties
 INVENTOR(S): Wallhaeuser, Karl H.; Mueller, Heinz; May,
 Adolf; Ruecking, Hans W.
 PATENT ASSIGNEE(S): Hoechst A.-G., Fed. Rep. Ger.
 SOURCE: Ger. Offen., 14 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2503026	A1	19760729	DE 1975-2503026	197501 25
NL 7600535	A	19760727	NL 1976-535	197601 20
DK 7600275	A	19760726	DK 1976-275	197601 23
GB 1538094	A	19790117	GB 1976-2673	197601 23
BE 837902	A1	19760726	BE 1976-163795	197601 26
FR 2298600	A1	19760820	FR 1976-1963	197601 26
FR 2298600	B1	19790629	DE 1975-2503026	197501 25

AB Quaternary ammonium compds. with softening and disinfecting
 properties were used with a fatty alc. and
 iso-PrOH to prep. stable aq. compns. for application to
 textiles during rinsing. Thus, a softening compn.
 contained dimethyldistearylammonium chloride [107-64-2] 4,
 1-(tallow alkanamidoethyl)-2-(tallow alkyl)-3-methylimidazolinium

methysulfate 2, di(C8-10 alkyl)dimethylammonium chloride 4, C12-14 alc. 2, ethoxylated (12 moles) oleyl alc. 0.5, iso-PROH 1.1, and water 86.4%.

IC C11D003-48

CC 46-4 (Surface Active Agents and Detergents)

IT Quaternary ammonium compounds, uses and miscellaneous

RL: USES (Uses)

(softening and disinfecting compns. contg., for textiles)

IT 107-64-2

RL: USES (Uses)

(softening and disinfecting agents contg., for textiles)

L36 ANSWER 41 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1976:423055 HCAPLUS

DOCUMENT NUMBER: 85:23055

TITLE: Washing compositions with a softening and antistatic effect

PATENT ASSIGNEE(S): Berol Kemi AB, Swed.

SOURCE: Neth. Appl., 26 pp.

CODEN: NAXXAN

DOCUMENT TYPE: Patent

LANGUAGE: Dutch

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 7505916	A	19751124	NL 1975-5916	197505 20
SE 7406698	A	19751121	SE 1974-6698	197405 20
SE 415031	B	19800901		
SE 415031	C	19801218		
US 4058489	A	19771115	US 1975-577535	197505 15
BE 829162	A1	19751117	BE 1975-156425	197505 16
DK 7502175	A	19751121	DK 1975-2175	197505 16
DK 149961	B	19861103		
FI 7501454	A	19751121	FI 1975-1454	197505 16
FI 59610	B	19810529		
FI 59610	C	19810910		
NO 7501749	A	19751121	NO 1975-1749	197505 16
NO 144268	B	19810421		
NO 144268	C	19810729		
FR 2272167	B1	19780203	FR 1975-15543	197505

16

GB 1500966 A 19780215 GB 1975-20939 <--
197505
16

CH 617718 A 19800613 CH 1975-6330 <--
197505
16

AT 7503780 A 19830315 AT 1975-3780 <--
197505
16

AT 372699 B 19831110 <--
CA 1032051 A1 19780530 CA 1975-227287
197505
20

PRIORITY APPLN. INFO.: SE 1974-6698 A
197405
20

AB Laundry detergents with softening and/or antistatic effects
contained 30-90% nonionic or amphoteric surfactants and 10-70% of
≥1 anionic and ≥1 cationic surfactant. Thus, a
laundry detergent contained ethoxylated (8 moles) C14-20
fatty alcs. 10, sulfate of ethoxylated (3 moles)
C16-18 fatty alcs. 3,
[C10H21OCH2CH(OH)CH2]2N+Me2Cl- [57945-70-7] 4.2, Na5P3O10
30, and Na perborate and additives 52.8%.

IC C11D001-86
CC 46-5 (Surface Active Agents and Detergents)
IT 57945-70-7
RL: USES (Uses)
(antistatic and softening agents, for textiles, detergents
contg.)

L36 ANSWER 42 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1976:61709 HCAPLUS

DOCUMENT NUMBER: 84:61709

TITLE: Washing composition with textile
softening and antistatic action

INVENTOR(S): Hellsten, Karl M. E.

PATENT ASSIGNEE(S): Berol Kemi AB, Swed.

SOURCE: Ger. Offen., 31 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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DE 2521799	A1	19751127	DE 1975-2521799	197505 16
DE 2521799	C3	19790920		
DE 2521799	B2	19790201		
SE 7406698	A	19751121	SE 1974-6698	197405 20
SE 415031	B	19800901		

SE 415031	C	19801218		
US 4058489	A	19771115	US 1975-577535	197505 15
			<--	
BE 829162	A1	19751117	BE 1975-156425	197505 16
			<--	
DK 7502175	A	19751121	DK 1975-2175	197505 16
			<--	
DK 149961	B	19861103		
FI 7501454	A	19751121	FI 1975-1454	197505 16
			<--	
FI 59610	B	19810529		
FI 59610	C	19810910		
NO 7501749	A	19751121	NO 1975-1749	197505 16
			<--	
NO 144268	B	19810421		
NO 144268	C	19810729		
FR 2272167	B1	19780203	FR 1975-15543	197505 16
			<--	
GB 1500966	A	19780215	GB 1975-20939	197505 16
			<--	
CH 617718	A	19800613	CH 1975-6330	197505 16
			<--	
AT 7503780	A	19830315	AT 1975-3780	197505 16
			<--	
AT 372699	B	19831110		
CA 1032051	A1	19780530	CA 1975-227287	197505 20

PRIORITY APPLN. INFO.:

SE 1974-6698

A

197405
20

AB The washing compn. contained 30-90% nonionic and/or amphoteric surfactant and 10-70% anionic and cationic surfactants and contained 0.7-0.95 equiv. anionic surfactant/equiv. cationic surfactant. Thus, a washing compn. contg. ethoxylated (8 moles) C14-20 fatty alcs. 10, sulfate ester of ethoxylate (2 moles) C16-18 alcs. 3, [C10H21OCH2CH(OH)CH2]2N+Me2C1-[57945-70-7] 4.2, and Na5P3O10 30 parts gave good cleaning and softening effects during laundering of textiles.

IC C11D

CC 46-5 (Surface Active Agents and Detergents)

IT 57945-70-7

RL: USES (Uses)

(antistatic agents and textile softeners, in detergents)

L36 ANSWER 43 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1975:566199 HCAPLUS
 DOCUMENT NUMBER: 83:166199
 TITLE: Dry-cleaning detergent **compositions**
 INVENTOR(S): Kojima, Kazumi; Oku, Shiro; Danjo, Yasuhiko;
 Yamazaki, Shingo
 PATENT ASSIGNEE(S): Nippon Oils & Fats Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 50076107	A2	19750621	JP 1973-116113	197310 16

PRIORITY APPLN. INFO.: JP 1973-116113 A
 197310
 16

AB A 10-70:90-30 mixt. of R1(CONH)nZkN+R2R3R4 X- (R1 = C11-21 alkyl, alkenyl, R2, R3 = C1-3 alkyl, R4 = C1-3 alkyl, PhCH2, HOCH2CH2, HOCH2CH2CH2, n, k = 0, 1, Z = C1-5 alkylene, X = Cl, Br) and nonionic surfactant(s) chosen from ethylene oxide adduct of alkylphenol, higher alc., higher fatty acid, or alkylamine, polyol fatty acid ester, and fatty acid diethanolamide was mixed with dry-cleaning solvent and coupler to give dry-cleaning detergent **compns.** For example, 0.5 l. soln. from 45% methanolic stearyltrimethylammonium chloride [112-03-8] 14, stearylamine-ethylene oxide adduct [26635-92-7] 20, sorbitan monostearate [1338-41-6] 10, Bu Cellosolve 5, and tetrachloroethylene 45 parts was dild. with 100 l. tetrachloroethylene to give dry-cleaning detergent **compn.** imparting better antistatic properties to polyester, polyamide, acrylic, and wool fabrics than a control tetrachloroethylene **compn.** contg. Na dodecylbenzenesulfonate, **nonylphenol**-ethylene oxide adduct, and Na dioctyl sulfosuccinate.

IC C11D
 CC 46-5 (Surface Active Agents and Detergents)
 IT Antistatic agents
 (surfactants, for dry-cleaning **compns.**)
 IT 112-03-8 1338-41-6 26635-92-7
 RL: **USES (Uses)**
 (dry-cleaning detergents contg., antistatic)

L36 ANSWER 44 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1975:566190 HCAPLUS
 DOCUMENT NUMBER: 83:166190
 TITLE: Liquid detergent **compositions** for
 tableware and vegetables
 INVENTOR(S): Asano, Yasutaka; Tachibana, Kyozauro; Ito,
 Yukio
 PATENT ASSIGNEE(S): Kao Soap Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 50076106

A2

19750621

JP 1973-126029

197311
09

PRIORITY APPLN. INFO.:

JP 1973-126029

A

197311
09

AB Liq. detergent compns. for tableware and vegetables contained oxyethylene group-contg. nonionic surfactant 5-40, sulfo or sulfate group-contg. anionic surfactant 1-20, and ≥ 2 of dimethylalkylamine oxide, dimethylalkylbetaine, fatty acid diethanolamide 1-20%. For example, an aq. soln. contg. polyethylene glycol dodecyl ether [9002-92-0] 20, Na α -olefinsulfonate 5, dimethylaurylamine oxide (I) [1643-20-5] 5, dimethylaurylbetaine (II) [683-10-3] 5, and EtOH 10% was mild to skin and had better foaming and detergency than that not contg. I or II.

IC C11D

CC 46-3 (Surface Active Agents and Detergents)

IT Sulfonic acids, uses and miscellaneous

RL: USES (Uses)

(alkene, liq. detergents contg., for dishwashing and vegetables)

IT 683-10-3 1643-20-5 9002-92-0

RL: TEM (Technical or engineered material use); USES (Uses)

(detergents contg., liq., for dishwashing and vegetables)

L36 ANSWER 45 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1975:533853 HCAPLUS

DOCUMENT NUMBER: 83:133853

TITLE: Surface-active betaines

INVENTOR(S): Willmund, Wolf D.; Andree, Hans; Sung, Eric

PATENT ASSIGNEE(S): Henkel und Cie. G.m.b.H., Fed. Rep. Ger.

SOURCE: Ger. Offen., 16 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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DE 2364440	A1	19750703	DE 1973-2364440	
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197312
24

PRIORITY APPLN. INFO.:

DE 1973-2364440

A

197312
24

AB The compds. $R_2R_1N^+(CH_2)_3SO_3^-$, $R_2R_1N^+CH_2CH(OH)CH_2SO_3^-$, $R_2R_1N^+CH_2CO_2^-$, and $R_2R_1N^+CH_2CH(OH)CH_2OSO_3^-$, with $R = CH_2CH(OH)CH_2OH$ and $R_1 = C_{12-18}$ alkyl, were prep'd. and were used in the manuf. of detergents contg. little or no phosphate. Thus, 0.5 mole hexadecylamine [143-27-1] in EtOH was treated slowly at reflux with 1 mole glycidol [556-52-5] and treated slowly at 60-70° with 0.5 mole propane sultone [1120-71-4] to prep. $H(CH_2)_{16}[HOCH_2CH_2(OH)CH_2]_2N^+(CH_2)_3SO_3^-$ [56417-88-0]. A detergent comprised $H(CH_2)_{16}[HOCH_2CH_2(OH)CH_2]_2N^+CH_2CO_2^-$ [56417-72-2] 10, ethoxylated fatty alcs. 8, triphosphate 10, Na silicate 15, CM-cellulose 2, EDTA 0.3, whitener 0.2, antifoaming agent 0.2, and Na₂SO₄ and water 54.3%.

IC C07C; C11D

CC 46-3 (Surface Active Agents and Detergents)
Section cross-reference(s): 23
IT Detergents
(ammonia compds. for phosphate-poor)
IT Quaternary ammonium compounds, uses and miscellaneous
RL: TEM (Technical or engineered material use); USES (Uses)
(detergents contg., phosphate-poor)
IT 56417-72-2 56417-84-6 56417-85-7 56417-86-8 56417-87-9
56417-88-0
RL: TEM (Technical or engineered material use); USES (Uses)
(detergents contg., phosphate-poor)

L36 ANSWER 46 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1975:445134 HCAPLUS
DOCUMENT NUMBER: 83:45134
TITLE: Comparative study of the action of surfactants
on some protein materials and their titration
potential on human skin
AUTHOR(S): Pelejero, C. M.; Balaguer, F.; Garcia Dominguez;
Parra, J. L.
CORPORATE SOURCE: Res. Dev. Lab., Antonio Puig, S. A., Spain
SOURCE: Cosmetics and Perfumery (1975), 90(3),
77-80, 82, 84, 87
CODEN: CSPEAX; ISSN: 0090-6581
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The amts. and amino acid compns. were detd. for proteins
extd. from zein and wool by 0.3% aq. surfactant solns. during 60 min
at 60° and 80°. A soln. of Na lauryl sulfate
[151-21-3] extd. more protein than a soln. of
Hexadecyltrimethylammonium bromide [57-09-0] which extd.
more than did solns. of Polyethylene glycol
monolauryl ether [9002-92-0] and Lauric diethanolamide [120-40-1].
The amino acid compns. of the extd. proteins were similar
to those of the original proteins.
CC 46-1 (Surface Active Agents and Detergents)
Section cross-reference(s): 62
IT Wool
Zeins
RL: USES (Uses)
(protein extn. from, by surfactant solns.)
IT 57-09-0 120-40-1 151-21-3, uses and miscellaneous 9002-92-0
RL: USES (Uses)
(protein extn. from zein and wool by solns. of)

L36 ANSWER 47 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1975:412769 HCAPLUS
DOCUMENT NUMBER: 83:12769
TITLE: Dishwashing detergent
INVENTOR(S): Spadini, Gianfranco L.; Demessemaekers, Emiel
PATENT ASSIGNEE(S): Procter and Gamble European Technical Center,
Belg.
SOURCE: Ger. Offen., 33 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2441944	A1	19750306	DE 1974-2441944	197409 02

<--

NL 7411444	A	19750306	NL 1974-11444	197408 28
			<--	
US 3983079	A	19760928	US 1974-501531	197408 29
			<--	
BE 819490	A2	19750303	BE 1974-148169	197409 03
			<--	
FR 2242460	A1	19750328	FR 1974-29971	197409 03
			<--	
FR 2242460	B1	19790105		
GB 1447448	A	19760825	GB 1974-38421	197409 03
			<--	
JP 50072908	A2	19750616	JP 1974-101804	197409 04
			<--	
PRIORITY APPLN. INFO.:		LU 1973-68355	A	197309 04

AB Dishwashing detergents contg. a polyethylene-polypropylene glycol (I) [9003-11-6], a quaternary ammonium surfactant, and a (trialkylammonio)alkanoate alkane sulfonate had good cleaning and rinsing properties and dried without leaving visible residues on dishes. Thus, a dishwashing detergent comprised didodecyldimethylammonium bromide [3282-73-3] 1.5, 3-(coconut alkyl)dimethylammonio)propionate 8.0, I (mol. wt. 2500, ethylene oxide content 10%) 10, coconut dimethylamine oxide 4, coconut diethanolamide 3, R(OC₂H₄)₆OH (R = coconut alkyl) 9, and water 64.5%.

IC C11D

CC 46-6 (Surface Active Agents and Detergents)

IT Quaternary ammonium compounds, uses and miscellaneous
RL: **USES (Uses)**
(detergents, for dishwashing)

IT **Detergents**
(dishwashing, contg. quaternary ammonium compds. inner salts, and polyalkylene glycol)

IT 55448-04-9
RL: **USES (Uses)**
(dishwashing detergent contg.)

IT 3282-73-3 7173-51-5 9003-11-6 13197-76-7 14933-08-5
24020-67-5 32718-39-1 39536-51-1 51277-92-0 55481-38-4
RL: **USES (Uses)**
(dishwashing detergents contg.)

L36 ANSWER 48 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1975:158154 HCAPLUS

DOCUMENT NUMBER: 82:158154

TITLE: Combined washing and softening
composition

INVENTOR(S): Grecsek, John J.

PATENT ASSIGNEE(S): Colgate-Palmolive Co.

SOURCE: Ger. Offen., 24 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
DE 2433079	A1	19750206	DE 1974-2433079	197407 10
FR 2236925	A1	19750207	FR 1974-24119	197407 11
FR 2236925 AU 7471138	B1 A1	19780331 19760115	AU 1974-71138	197407 11
AU 496839 BE 817610	B2 A1	19781102 19741104	BE 1974-146521	197407 12
DK 7403770	A	19750303	DK 1974-3770	197407 12
DK 150987 DK 150987	B C	19871005 19880215	US 1973-378881	197307 13

PRIORITY APPLN. INFO.:

AB Mixts. of anionic detergents 5-20, nonionic detergents 1-10, cationic quaternary ammonium compd. 2-10, and Na tripolyphosphate (I) 10-45% were used for simultaneous laundering and softening of textiles. Thus, a detergent comprised Na tridecylbenzenesulfonate [26248-24-8] 12, ethoxylated (11 moles) C14-15 fatty alcs. 4, dimethyldistearylammonium chloride [107-64-2] 5, I 33, Na silicate 7.5, CM-cellulose 0.5, Na sulfate 30, and water 8%.

IC C11D; D06L

CC 46-5 (Surface Active Agents and Detergents)

IT 25322-68-3D, Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy-, monoalkyl ethers
RL: **USES (Uses)**
(anionic detergents contg. cationic softeners and, for textiles)

IT 26248-24-8
RL: **USES (Uses)**
(detergents contg. cationic softeners and, for textiles)

IT 107-64-2
RL: **USES (Uses)**
(softeners, for textiles, anionic detergents contg.)

L36 ANSWER 49 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1974:537861 HCAPLUS

DOCUMENT NUMBER: 81:137861

TITLE: Detergents of low foam formation

INVENTOR(S): Hellsten, Karl M. E.; Martinsson, Eva M.; Sterky, Kristina

PATENT ASSIGNEE(S): MoDoKemi AB

SOURCE: Ger. Offen., 18 pp.
CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
DE 2359155	A1	19740620	DE 1973-2359155	197311 28
			<--	
DE 2359155	B2	19760311		
DE 2359155	C3	19761028		
SE 375111	B	19750407	SE 1972-15648	197211 30
			<--	
JP 50001107	A2	19750108	JP 1973-124314	197311 05
			<--	
JP 51039964	B4	19761030		
FR 2327310	A1	19770506	FR 1973-41459	197311 21
			<--	
IT 1014035	A	19770420	IT 1973-70453	197311 23
			<--	
FI 55214	C	19790611	FI 1973-3635	197311 26
			<--	
FI 55214	B	19790228		
BE 807896	A1	19740315	BE 1973-138240	197311 28
			<--	
US 3954845	A	19760504	US 1973-419856	197311 28
			<--	
NL 7316356	A	19740604	NL 1973-16356	197311 29
			<--	
NL 156749	B	19780516		
CH 581692	A	19761115	CH 1973-16768	197311 29
			<--	
GB 1459806	A	19761231	GB 1973-55508	197311 29
			<--	
CA 1003723	A1	19770118	CA 1973-187021	197311 29
			<--	
DK 138339	C	19790122	DK 1973-6464	197311 29
			<--	
NO 141563	B	19791227	NO 1973-4569	197311 29

NO 141563 C 19800408
AT 7310062 A 19751015 AT 1973-10062

197311
30

AT 330932 B 19760726
PRIORITY APPLN. INFO.: SE 1972-15648 A

197211
30

SE 1972-15647 A

197211
30

AB Nonionic surfactants were used with ampholytic surfactants to prep. liq. detergents which had good cleaning properties and produced small amts. of foam when used in automatic washers. Thus, CH₃(CH₂)₉OCH₂CHOHCH₂N+Me₂CH₂CO₂- [51460-86-7] 2, CH₃(CH₂)₁₅O(C₂H₄O)₄CH₂CHOHCH₂N+Me₂CH₂CO₂- [52849-38-4] 2, RO(C₂H₄O)₈H (R = dodecyl and tetradecyl) 6, K pyrophosphate (or Na nitrilotriacetate) 12, propylene glycol 12, and water 66% were mixed to prep. a clear soln. stable from -4.deg. to +45.deg..

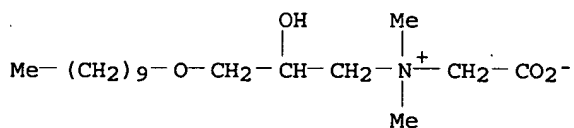
IT 51460-86-7 52849-38-4

RL: USES (Uses)

(detergent liqs contg polyethylene glycol derivs and, low-foaming)

RN 51460-86-7 HCAPLUS

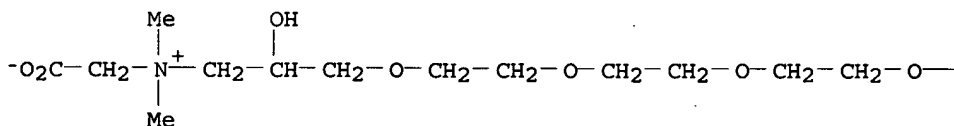
CN 1-Propanaminium, N-(carboxymethyl)-3-(decyloxy)-2-hydroxy-N,N-dimethyl-, inner salt (9CI) (CA INDEX NAME)



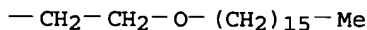
RN 52849-38-4 HCAPLUS

CN 4,7,10,13,16-Pentaaxadotriacontan-1-aminium, N-(carboxymethyl)-2-hydroxy-N,N-dimethyl-, inner salt (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



IC C11D; C07C

CC 46-5 (Surface Active Agents and Detergents)

IT Detergents

(ampholytic-nonionic, liq, low-foaming)

IT 51460-86-7 52849-38-4 52871-07-5

RL: USES (Uses)

(detergent liqs contg polyethylene glycol
derivs and, low-foaming)
IT 9016-45-9 25322-68-3
RL: **USES (Uses)**
(monoalkyl ether detergent liqs. contg. ampholytes and,
low-foaming)

L36 ANSWER 50 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1973:527578 HCAPLUS
DOCUMENT NUMBER: 79:127578
TITLE: Dry-cleaning solvents for garments
INVENTOR(S): Tsuji, Takao; Katsumi, Mamoru; Wakamiya,
Katsuhiko
PATENT ASSIGNEE(S): Kao Soap Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 48047903	A2	19730707	JP 1971-83436	197110 21
JP 51044126	B4	19761126	JP 1971-83436	197110 21

PRIORITY APPLN. INFO.: A

AB Transparent dry-cleaning solns. with improved cleaning properties
were prep'd. from an org. solvent contg. 0.01-4% of an cationic or
nonionic surfactant or their mixt. and 0.005-10% water and the vapor
phase of soln. at equil. had 100% relative humidity. A
compn. consisting of dilauryldimethylammonium chloride (I) [
3401-74-9] 30, poly(oxyethylene) nonylphenyl ether (II) [
9016-45-9] 12, H₂O 30, and perchloroethylene (III)
[127-18-4] 28% was mixed with III to give a W/O-type emulsion contg.
0.03-1.4% I + II, whose equil. vapor had 100% relative humidity.
When 3.5 kg soiled acrylic fiber and cotton fiber garments were
dry-cleaned 15 min at room temp. by using 90 l. of the emulsion, the
garments were cleaned without shrink.

INCL 19F2; 92(5)B0; 92(5)B426

CC 46-5 (Surface Active Agents and Detergents)

IT Acrylic fibers

RL: **USES (Uses)**

(dry-cleaning solns. for)

IT 127-18-4

RL: **USES (Uses)**

(dry-cleaning solns. contg.)

IT 3401-74-9 9016-45-9

RL: TEM (Technical or engineered material use); **USES (Uses)**
(surfactants, for dry-cleaning solns.)

L36 ANSWER 51 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1973:527574 HCAPLUS
DOCUMENT NUMBER: 79:127574
TITLE: Detergent compositions containing
N-acylglutamate salts and betaines
INVENTOR(S): Naganuma, Yoshinoro; Iwata, Kazuko
PATENT ASSIGNEE(S): Kao Soap Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 48056205	A2	19730807	JP 1971-92865	19711119
JP 50023682	B4	19750809	JP 1971-92865	19711119

PRIORITY APPLN. INFO.: A

AB The detergent compn. contains a Na, K, NH₄, or alkanolamine salt of N-acylglutamic acid (C8-22 acyl) and an C10-18 alkyl or alkenyl betaine with 2 C1-3 N-substituents or a polyethylene glycol (d.p. 1-10) and H, CH₂CO₂M (M is Na, K, NH₄ or alkanolamine), or a polyethylene glycol (total d.p. 1-10) N-substituents. The compn. is mild on skins and has good cleaning power. Thus, a compn. of Na N-lauroyl-L-glutamate (I) [29923-31-7] 15, (carboxymethyl) (dimethyl) dodecylammonium hydroxide inner salt (II) [683-10-3] 10, EtOH 10, urea 5, perfume 0.1, and water balance to 100% had much superior dish cleaning power than that of similar compn. contg. 25 parts I and no II.

INCL 19F2

CC 46-3 (Surface Active Agents and Detergents)

IT Betaines

RL: TEM (Technical or engineered material use); USES (Uses)
 (detergents contg., for dishwashing)

IT 42926-22-7

RL: USES (Uses)
 (detergents contg. betaines and, for dishwashing)

IT 42926-23-8

RL: TEM (Technical or engineered material use); USES (Uses)
 (detergents contg., for dishwashing)

L36 ANSWER 52 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1973:86337 HCAPLUS

DOCUMENT NUMBER: 78:86337

TITLE: Agents for cleaning highly contaminated chicken feathers

INVENTOR(S): Mahall, Karl

PATENT ASSIGNEE(S): Henkel und Cie. G.m.b.H.

SOURCE: Ger., 3 pp.
 CODEN: GWXXAW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1535969	B1	19730104	DE 1966-H59690	19660616
DE 1535969	C2	19730802		
US 3475112	A	19691028	US 1967-632904	19670424

BE 699892 A 19671214 BE 1967-699892 196706
14

PRIORITY APPLN. INFO.: DE 1966-H59690 A 196606 16

IT 107-64-2 110-86-1, uses and miscellaneous 123-03-5
RL: TEM (Technical or engineered material use); **USES (Uses)**
(detergents contg., for washing feathers)

L36 ANSWER 53 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1973:18068 HCAPLUS
DOCUMENT NUMBER: 78:18068
TITLE: Textile softening **compositions**
INVENTOR(S): Eckert, Hans Werner; Werner, Claus
PATENT ASSIGNEE(S): Henkel und Cie. G.m.b.H.
SOURCE: Ger. Offen., 21 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	-----	-----	
DE 2114129	A	19720928	DE 1971-2114129	19710324
NL 7105926	A	19720926	NL 1971-5926	19710429
BR 7103179	A0	19730410	BR 1971-3179	19710525
US 3795610	A	19740305	US 1971-213721	1971112

29

IT 950442 A 19730620 IT 1972-22190 197203
22

BE 781124 A1 19720925 BE 1972-115463 197203
23

ZA 7201991 A 19721227 ZA 1972-1991 197203
23

AT 320830 B 19750225 AT 1972-2527 197203
23

FR 2130652 A5 19721103 FR 1972-10368 197203
24

FR 2130652 B1 19741018 DE 1971-2114129 A 197103
24

PRIORITY APPLN. INFO.: DE 1971-2114129 A 197103
24

AB The powd. title **comps.**, which were well dispersible in cold water, did not neg. influence the absorptivity of textiles, and were used in the last rinsing cycle in automatic laundering, consisted of the softeners 2-hydroxy-3-(dihexadecylmethylammonio)propyl acrylate chloride (I) [34373-64-3], 2-hydroxy-3-(ditetradecylmethylammonio)propyl methacrylate chloride [36111-12-3], or bis[2-hydroxy-3-(didodecylmethylammonio)propyl] maleate dichloride [36111-13-4], the carrier urea, complexing glycolic acid (II), and nonionic dispersants. Thus, a **compn.** consisted of I 20, II 2.0, ethoxylated (9-10 moles ethylene oxide) **nonylphenol** 3.0, Na₂SO₄ 15.0, and urea 60.0%.

IC C11D; C07C

CC 46-4 (Surface Active Agents and Detergents)
Section cross-reference(s): 39

ST textile softening **compn.**; ammoniopropyl acrylate textile softener; methacrylate ammoniopropyl textile softener; maleate ammoniopropyl textile softener

IT Textiles
(softening of, (dialkylmethylammonio)hydroxypropyl unsatd. carboxylate chloride-contg. **comps.** for, powd.)

IT 34373-64-3 36111-12-3 36111-13-4
RL: **USES (Uses)**
(textile softening **comps.**, powd.)

L36 ANSWER 54 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1972:101560 HCAPLUS

DOCUMENT NUMBER: 76:101560

TITLE: Liquid laundry-softening detergents

INVENTOR(S): Bruening, Juergen; Eckert, Hans W.; Heins, Arnold

PATENT ASSIGNEE(S): Henkel und Cie. G.m.b.H.

SOURCE: Ger. Offen., 30 pp.
CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2025945	A	19711216	DE 1970-2025945	197005 27
NL 7105920	A	19711130	NL 1971-5920	197104 29
BE 767547	A1	19711124	BE 1971-103763	197105 24
US 3729416	A	19730424	US 1971-146515	197105 24
ES 391583	A1	19741116	ES 1971-391583	197105 26
AT 7104546	A	19751215	AT 1971-4546	197105 26
AT 331761	B	19760825		
ZA 7103427	A	19720126	ZA 1971-3427	197105 27
FR 2100691	A5	19720324	FR 1971-19251	197105 27
FR 2100691	B1	19730608		
PRIORITY APPLN. INFO.:			DE 1970-2025945	A 197005 27

AB Liq. laundry-softening detergents were composed of aq. solns. of nonionic dispersants 0.2-3.0, water-sol. org. solvents 0.2-10.0, laundry-softeners 0.3-7.5, and ammonium-substituted unsatd. carboxylic acid ester halides 2.0-10.0%. For example, dihexadecylmethylamine 480, acrylic acid 90, epichlorohydrin 116, and 2,6-di-tert-butyl-4-methylphenol 0.5 g were heated in 1 l. iso-PrOH at 60-5.deg. to give [3-(acryloyloxy)-2-hydroxypropyl]dihexadecylmethylammonium chloride (I) [34373-64-3]. I (7%) was mixed with ethylene oxide-nonylphenol adduct 2, 4,4'-bis[4-anilino-6-(dihydroxyethylamino)-1,3,5-s-triazin-2-yl]-2,2'-stilbenedisulfonic acid [4404-43-7] 0.05, glycolic acid 1.0, iso-PrOH 1.25, and H₂O 88.7% to give a laundry-softening detergent which was useful in aq. laundry solns.

IC C11D; C07C

CC 46 (Surface Active Agents and Detergents)

IT Softening agents

(quaternary ammonium compds., liq. detergent compns. contg., for textiles)

IT Textiles

(softening agents for, quaternary ammonium compds. as, liq. detergent compns. contg.)

IT 34373-64-3 36111-12-3 36111-13-4 36111-14-5 36111-15-6
36283-30-4

RL: USES (Uses)

(softening agents, for liq. detergent compns. for textiles)

L36 ANSWER 55 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1968:97023 HCAPLUS
 DOCUMENT NUMBER: 68:97023
 TITLE: Cationic fabric softener containing a detergent
 PATENT ASSIGNEE(S): Unilever N. V.
 SOURCE: Neth. Appl., 13 pp.
 CODEN: NAXXAN
 DOCUMENT TYPE: Patent
 LANGUAGE: Dutch
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 6707151		19661124	NL	

PRIORITY APPLN. INFO.:

US

196605
23

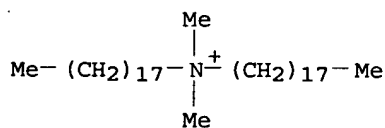
AB An anionic detergent contains a cationic N compd. serving as a fabric softener to avoid the need for separate addn. of fabric softener during the rinsing stage in household washing machines. For example, a detergent is prepd. by mixing a linear Na alkylbenzenesulfonate (contg. C12-16 alkyl groups) (Alkylate 1060) 13, Na CM-cellulose 0.49, Na triphosphate 54.2, coconut fatty acid ethanolamide 2.71, Na2SO4 8.02, MeC6H4SO3Na 1.08, Na2SiO3 4.33, optical brightener 0.43, polybromosalicylanilide germicide 0.54, and H2O 15.14% by wt. A fabric softener was prepd. by melting 77.5% distearyldimethylammonium chloride with 9.7% of a condensate of a C16-20 alkanol and ethylene oxide (contg. 67.2% ethylene oxide) (Alfonic 1620-7) and mixing with 12.9 wt. % talc. The 2 compns. were dry mixed in a 92.25:7.75 wt. ratio.

IT 107-64-2
 RL: USES (Uses)

(softeners from polyethylene glycol monoalkyl ether and, for fabrics, detergents contg.)

RN 107-64-2 HCAPLUS

CN 1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

IC D06H

CC 46 (Surface Active Agents and Detergents)

IT 107-64-2

RL: USES (Uses)

(softeners from polyethylene glycol monoalkyl ether and, for fabrics, detergents contg.)

IT 25322-68-3D, Glycols, polyethylene, monoalkyl ethers

RL: USES (Uses)

(softening agents from dimethyldioctadecylammonium chloride and,

for fabrics, detergents contg.)

L36 ANSWER 56 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1967:67043 HCAPLUS
 DOCUMENT NUMBER: 66:67043
 TITLE: Micelle formation in mixtures of nonionic and cationic detergent
 AUTHOR(S): Schick, Martin J.
 CORPORATE SOURCE: Lever Brothers Co., Edgewater, NJ, USA
 SOURCE: Journal of the American Oil Chemists' Society (1966), 43(12), 681-2
 CODEN: JAOCA7; ISSN: 0003-021X
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB The effect of a homologous series of poly(oxyethylene)-n-dodecanol condensates on the crit. micelle concn. (cmc) of mixts. with n-dodecyltrimethylammonium bromide (I) and the effect of poly(oxyethylene)-n-hexadecanol condensates on the cmc of mixts. with n-hexadecyltrimethylammonium bromide (II) was studied in terms of the compn. of the mixts. The cmc of the nonionic component of the mixed micelles is approx. 0.01 of that of the cationic component. Only a gradual increase in the cmc values of the mixed micelles above the values of the nonionic components was observed in the compn. range of 0-75 moles % or 0-90 moles % of I and II, resp. This is followed by an abrupt transition to the high cmc values of the cationic component. This abrupt transition is considerably reduced by addn. of Na-Br. In the absence of added electrolyte, the degree of ionic repulsion of the cationic component in mixed micelles is markedly decreased as the proportion of the nonionic component (dodecanols and hexadecanols) reaches a threshold range of 25 or 10 mole %, resp. Swamping of charges reduces ionic repulsion in NaBr solns. and, consequently, the abrupt transition in the cmc vs. compn. curves is reduced.

IT 1119-94-4
 RL: USES (Uses)
 (crit. micelle concn. of, polyethylene glycol dodecyl ether effect on)

RN 1119-94-4 HCAPLUS
 CN 1-Dodecanaminium, N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)

Me₃N⁺-(CH₂)₁₁-Me

● Br⁻

IT 57-09-0
 RL: USES (Uses)
 (crit. micelle concn. of, polyethylene glycol hexadecyl ether effect on)

RN 57-09-0 HCAPLUS
 CN 1-Hexadecanaminium, N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)

Me₃N⁺-(CH₂)₁₅-Me

● Br⁻

CC 46 (Surface Active Agents and Detergents)
IT 9002-92-0
RL: USES (Uses)
(crit. micelle concn. of dodecyltrimethylammonium bromide in
presence of)
IT 27306-79-2
RL: USES (Uses)
(crit. micelle concn. of hexadecyltrimethyl ammonium bromide in
presence of)
IT 27306-79-2
RL: USES (Uses)
(crit. micelle concn. of hexadecyltrimethylammonium bromide in
presence of)
IT 1119-94-4
RL: USES (Uses)
(crit. micelle concn. of, polyethylene glycol
dodecyl ether effect on)
IT 57-09-0
RL: USES (Uses)
(crit. micelle concn. of, polyethylene glycol
hexadecyl ether effect on)

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